

EXCELLENT (A)

SKETCHING TECHNIQUES

Hikaru Hayashi (Go office) & Tsubura Kadomaru





■ About the author

Hikaru Hayashi

Hikaru Hayashi was born in 1961 in Tokyo, Japan. His cartoonist career began when he was graduated from the humanities department of Tokyo Metropolitan University majoring in philosophy. He won the BUSINESS JUMP consolation prize and excellent works prize. He



learnt from cartoonists Hajime Furukawa and Noriyoshi Inoue. He established his reputation with the memorable memoir cartoon AJA KONG Story. In 1997, he set up Go office, a cartoon design and production firm. He has published over 50 books of Cartoon Techniques in Japan and abroad.

♦ http://www.go-office.jp/

Tsubura Kadomaru

Tsubura Kadomaru has been fond of painting since childhood. She served as head of the art club in junior and senior high schools. The art club is actually a cartoon society and Gundam seminar. She served as a guardian of the art club and its members. The art club has cultivated a group of active game and cartoon developers. She is in the heyday of image expression and modern arts. She is studying oil painting in the art club of Tokyo National University of Fine Arts and Music.

EXCELLENT MANGA SKETCHING TECHNIQUES

Vol.1 Pretty Girl

by Hikaru Hayashi (Go office) & Tsubura Kadomaru

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Kou Kizaki, Izumi Midorikawa, Icchi, Izumi Yukino, Maruto, Yuzupon, 3265 (Mitsurugi), Rami, Daisuke Sakai, Mizuki Sano, Enyuusannin, Ayumi Wada, Daichi Kimura, Touya, Ayaka Ono, Takuya Shiniyo, Mao, Non Ohyagi,

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Preface

Drawing female figures is an everlasting theme in cartoons, animation and illustrations.

I looked up image websites on the Internet recently. I found out that professionals and amateurs are complaining it is difficult to draw the female body well.

Although there are not big distinctions between drawing female figures and male figures and other roles, this question continues to remains, because too many people enjoy drawing female figures. In two dimensional space, female figures are expressed with curves, along with complex cylinders to reveal stereoscopic feelings. If we do not understand fundamental principles and compositions, we will certainly be unable to draw them well.

This book starts with the full-length portrait of figures, introducing how to draw up lovely faces of girls and bodies with female characteristics. We approach the issue from the whole to parts, and from parts to the whole. We illustrate them in the whole and part perspectives. This method might look difficult in the beginning. But by observing parts, we will have an intellectual knowledge of the whole, and inspire readers to ponder over the whole.

Observe and think, and draw on the basis of theories (re-composition and expressions) – this is the only way to improve drawing.

Drawings are made after thinking. Understand this, and we will make progress fast.

It will be wonderful if we look at issues neglected previously and issues to be scrutinized at a different angle.

We might lose some joys from spontaneous creation, if we think too much about detail first. But if we keep making spontaneous drawings, we will not make much progress no matter how long we are engaged in it (of course, it is important to draw following our instincts. But we need to differentiate between spontaneity and deliberation.)

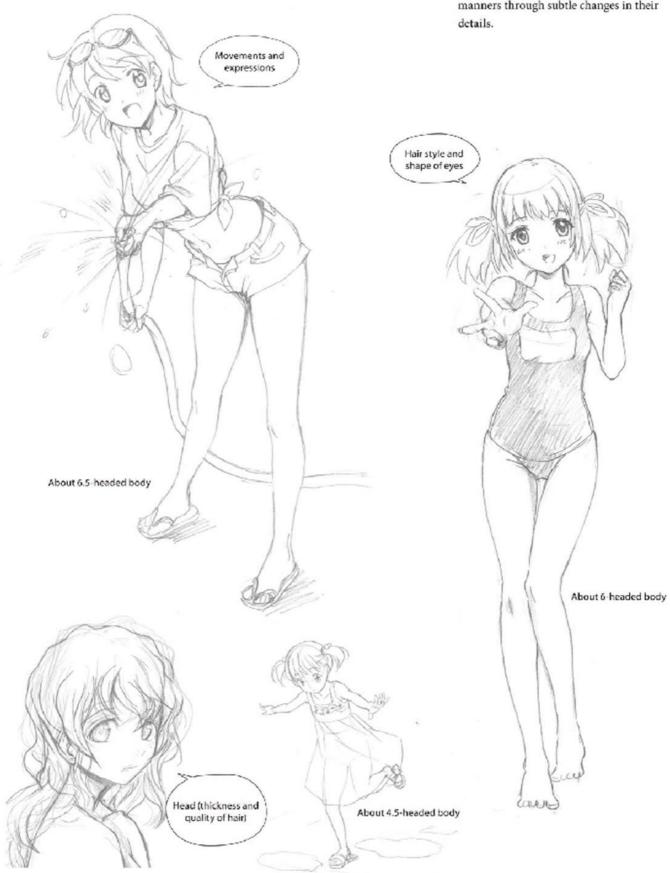
Grasp forms, understand form connection (construction), deliberate on the art while drawing, and accumulate experiences. If one day, you are hit by the ideas "I do not know how to draw it well", and "I want to draw it better", you will have another door opened in front of you.

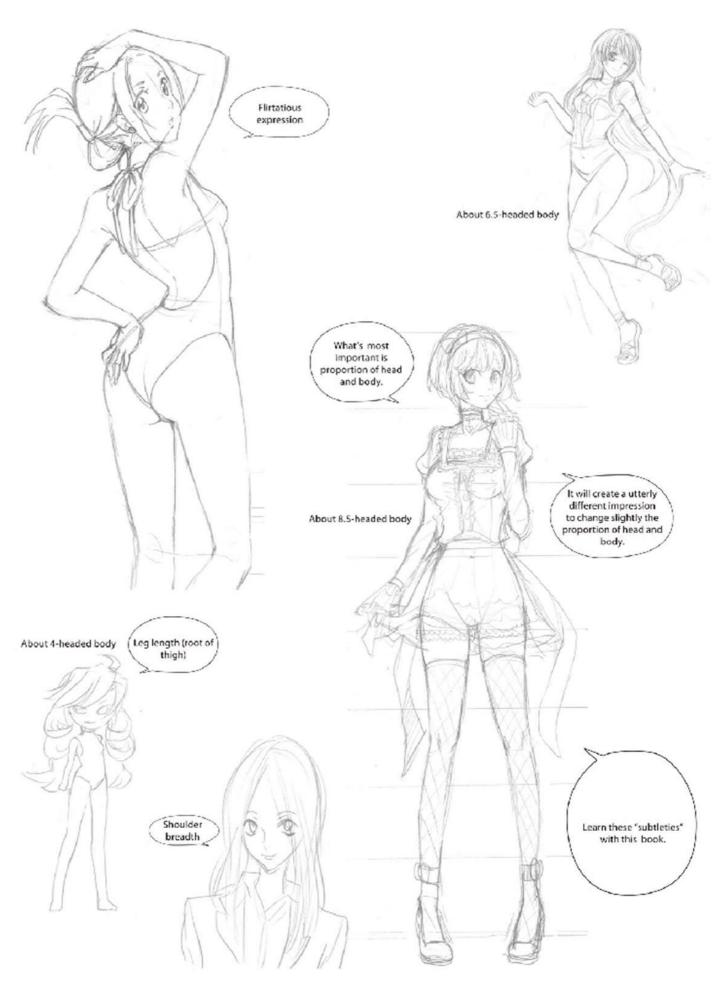
Start from here to draw up lovely figures of unique characteristics.

I hope this book may provide powerful help to the broad masses of cartoon fans.

The female figures are all pretty girls

The personalities of the female figures are expressed in subtleties. Therefore, when we meditate on designing female figures, we may present pretty girls of diversified manners through subtle changes in their details.

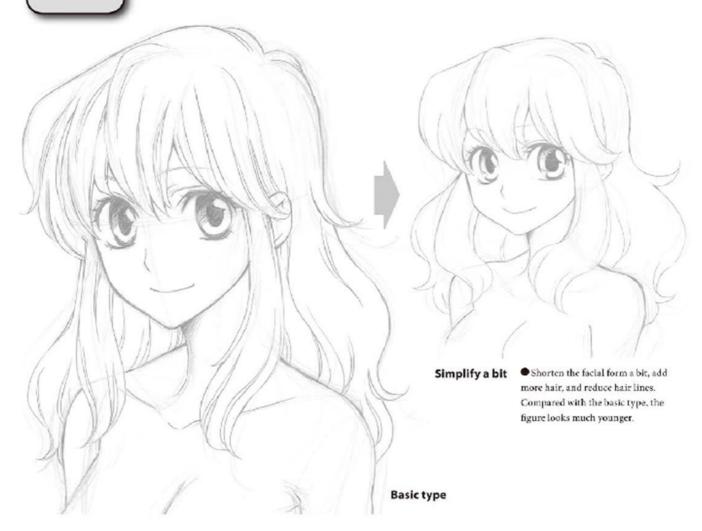




Take on a new look through transformation (bodily change)

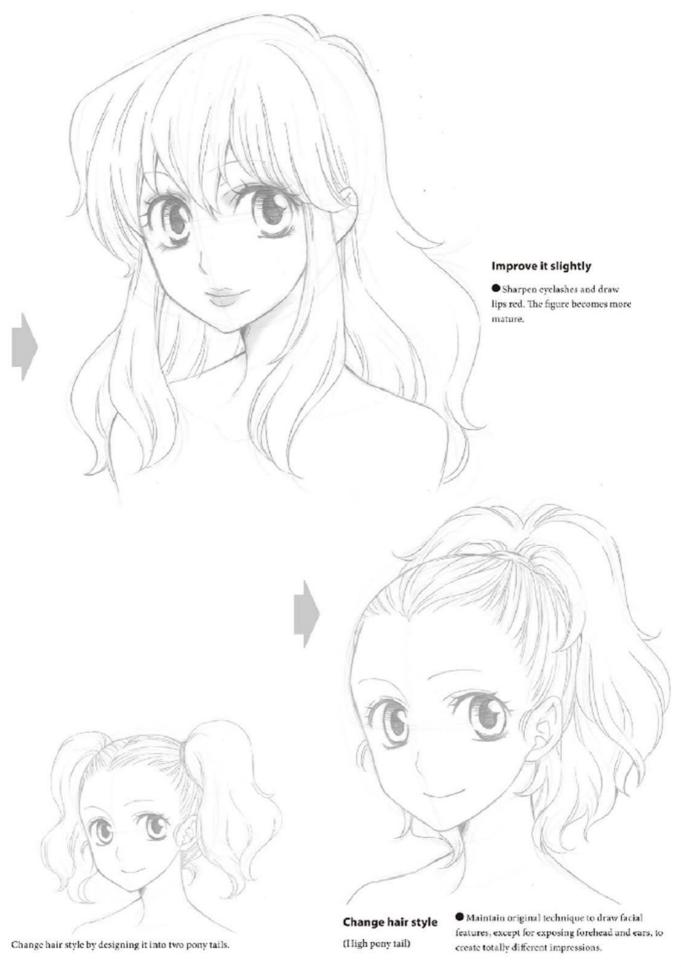


With transformation, the facial features of the figure instantly shine with splendid charms.





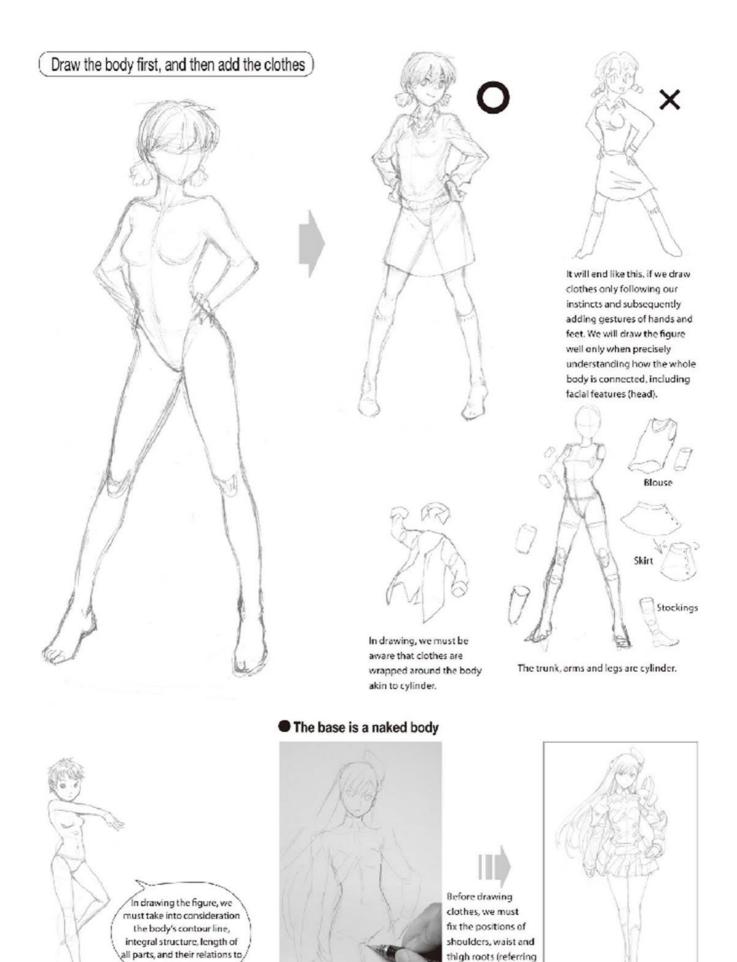
style before transformation,



No matter how it ends, the figure is drawn naked in base

Body (Trunk) It will end in unexpected failure to start with drawing clothes. Only do this with the figure's body when you have fixed the proportion of the body.

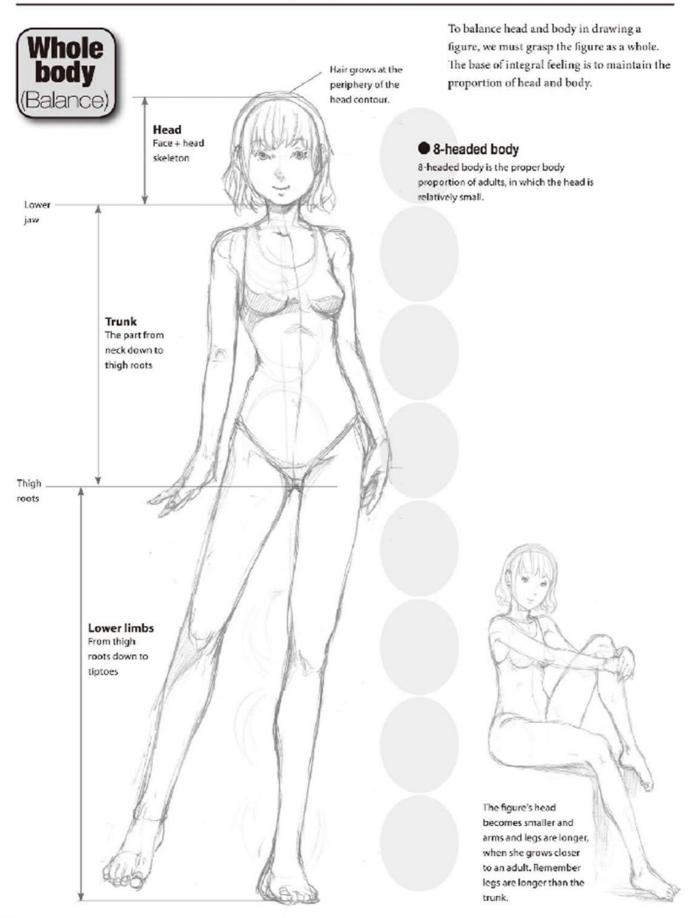


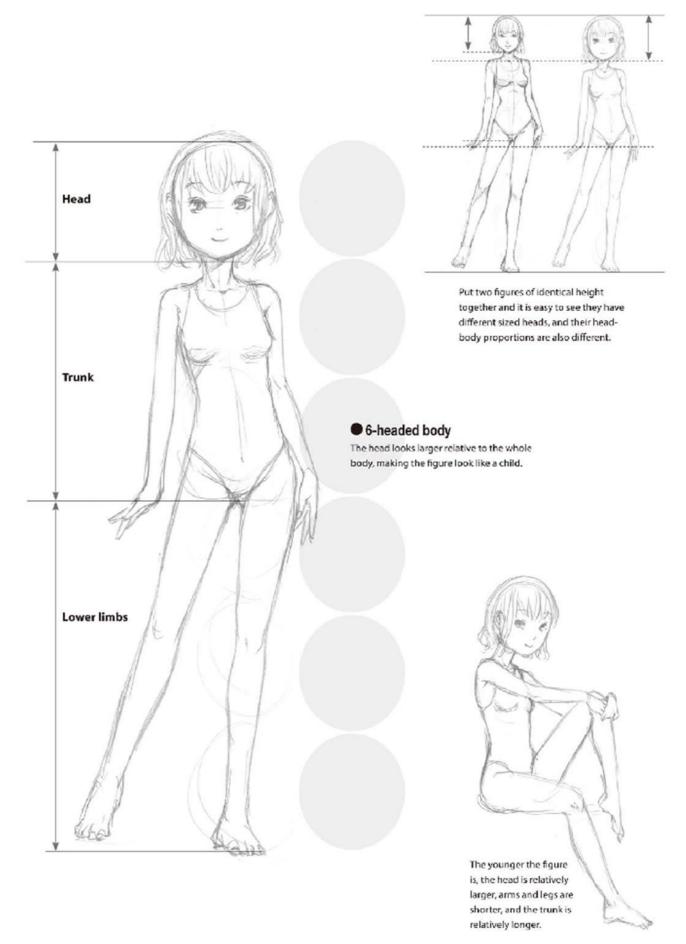


to Practice in Drawing in page 36).

the trunk.

The base of the naked body is proportional to the head and body





The female figures are all pretty girls

Take on a new look through transformation (bodily change)

No matter how it ends, the figure is drawn naked in base

The base of the naked body is proportional to the head and body

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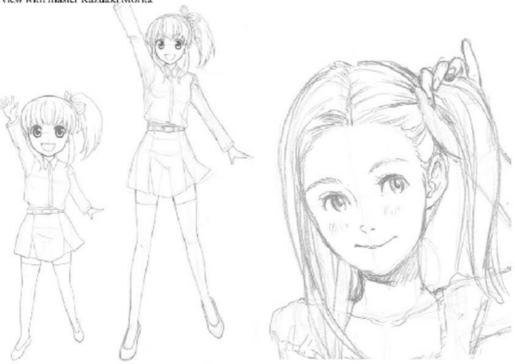
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How to read the book ~Improve your drawing skills through "focalized" and "overall" training ~

How to overcome difficulties.

Overcoming weakness through focalized training. For example, if you cannot draw eyes well, focus on drawing eyes. In like manner, focus on hair if you cannot draw hair well.... Intensify focalized training in this mode. It needs dedicated repetitions to get over your weakness in drawing. Naturally, it does not necessarily mean you can draw a figure well only by drawing parts well.

 How to become a master hand ~Be aware of the whole when drawing, and gradually cultivate the capability to grip overall balance~

Cultivate the sense of balance to link face, body, trunk, arms and legs under different portrait modes, such as drawing full-length portraits, busts, and half-length portraits. The most fundamental ability is to know the proportion of head and body.

Pay close attention to different drawing styles, balances and techniques.

Each person has his own drawing style and his own mode for brevity and balance.

If we keep our mind only on one painter and learn his drawing techniques, we will simply be an imitator. To establish our own styles, we must pay more attention to works of our favorite painters, as well as paintings of styles opposite to our preference. It is a good learning method to observe at all times.

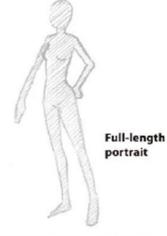
The illustrations of this book are drawn by many persons exactly for that reason.



A figure can be split into many parts.



Components of the body: chest, waist and abdomen. When taken apart, the body can be expressed in diversified geometries.



Although each part looks independent, they are actually joined up to compose an integrated whole, which is fundamental to the drawings. The sizes and forms of the parts are all based on the integrated whole. It is meaningless to draw parts before fixing the style of the integrated whole.

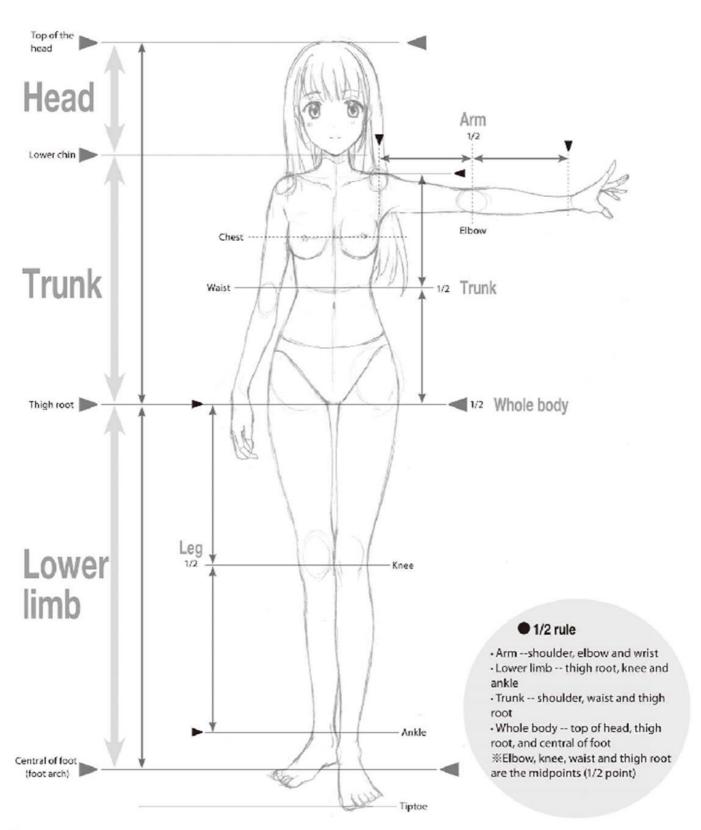
Chapter One

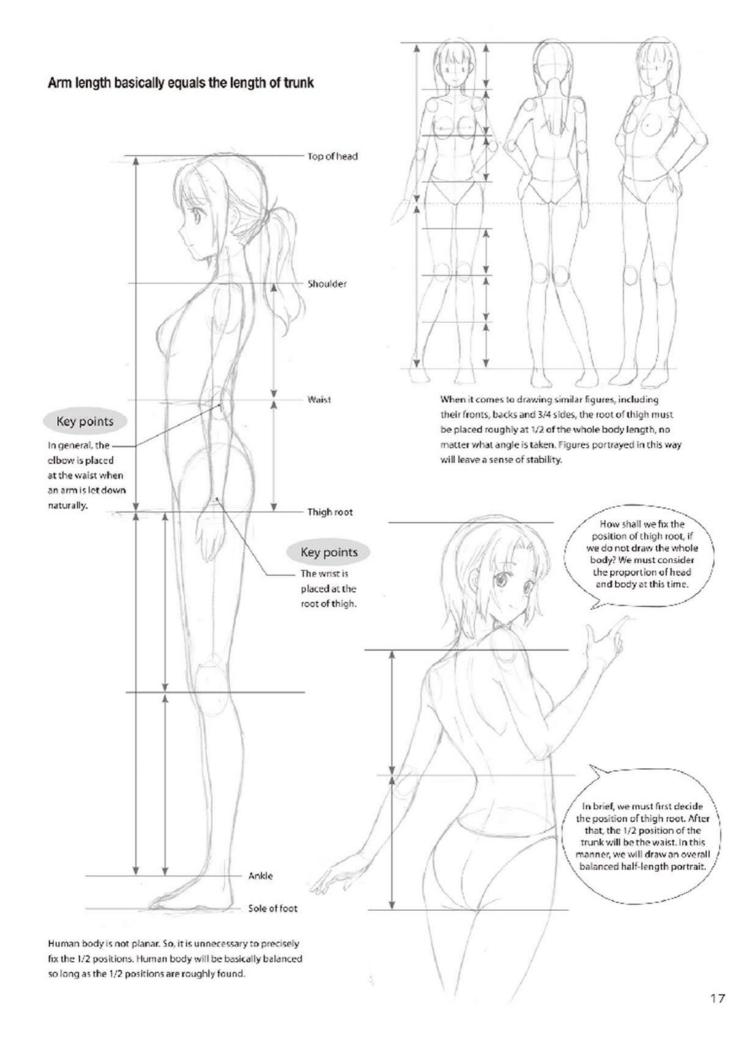
Draw full-length portrait

1/2 rule

~ Foundations for body balance ~

The positions of joints are most crucial for us to balance the human body well. With regard to arms, legs, trunk and the whole body, the positions of elbows, knees, waist and thigh roots are exactly the midpoints of these parts. They are applied as benchmarks to determine balance of human body.





Rule of head-and-body proportion

The head-and-body proportion is a measure to fix the full body length of a figure on the basis of head length.

Count the number of heads to decide the head-and-body proportion

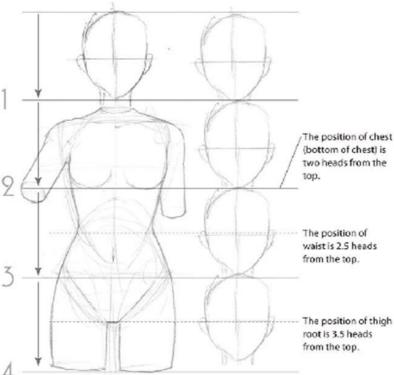
Count body with head skeleton in principle The length of skull is two times the distance from lower jaw to eyes. Count from here. The thickness of hair is excluded. One head length In this way, we count the length of the figure's body with the head as unit. Count with approximate number of heads 2 Depend on the sixth sense 4 rather than auxiliary circles, when you can draw the figure with skills. The head-and-body proportion will always be eight heads for the same figure in 6 different situations. the head is counted without thickness of hair. There are two methods If we count with the center to count where feet of foot (foot arch) as the end. We may choose benchmark, the length of either one according to body will be 8.6 heads. our habits. If we count with toes as the benchmark, the

length of body will be 9 heads.

Rule of head-andbody proportion

To grasp the relations of the whole and parts, we will count with the head as a benchmark

Apply the method in actual drawing



We may also apply the head-and-body proportion rule to draw the front, side and 3/4 side pictures. When drawing the figure at different angles, we will create *multiple figures' for the same object, if we change the head-and-body proportion (change the positions of the chest, waist, and thigh root).

In drawing a figure, we fix the positions of all parts by using one head, half a head, and a quarter of a head as the length unit. It is unnecessary to locate them so precisely. It will do when we take the length of head as the unit. We don't have to precisely measure it. It is good to find out the positions so as to basically keep balance.





If the length of hair is counted into the length of head, we might meet such a figure:

Head4.8cm Body1.8cm Full body length6.6cm

If the hair length is counted as a part of the head length, we will measure the body length with the head-and-body proportion when meeting such a figure. It would be ridiculous to have full body length + head length 6.6+4.8=1.4 headed body.

Actually, this is a The shape with drooping 3-headed body

figure. hair.

 The head-and-body proportion is counted on the basis of hair-free head.



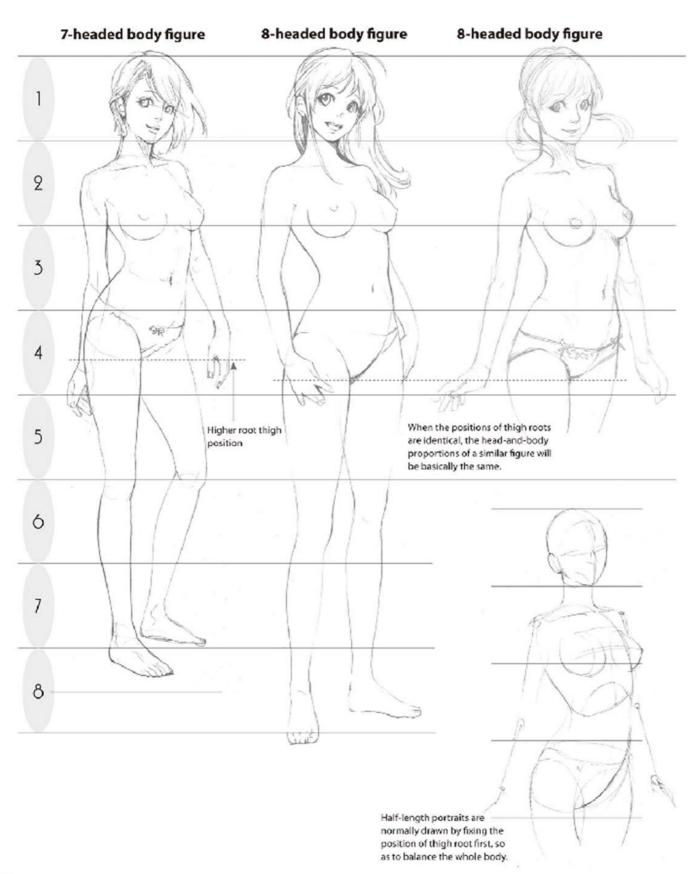
Fix the positions of the head and thigh root and the balance of the full body, just like making a doll.



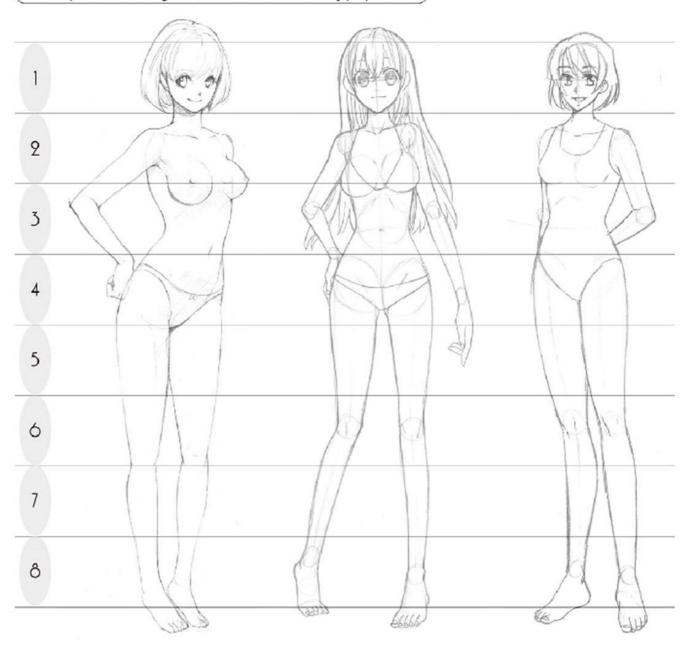
Change the scale with the head-and-body proportion

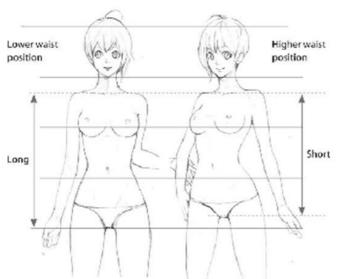
Understand changes in the position of thigh root.

Difference between 7-headed body and 8-headed body



Example of different figures with same 8-headed body proportion





Change in proportions

Length of neck Position of chest Position of thigh root (the higher the thigh root is, the longer the figure's legs will be)

*Changes in hair quantity will create different impressions of the figures.

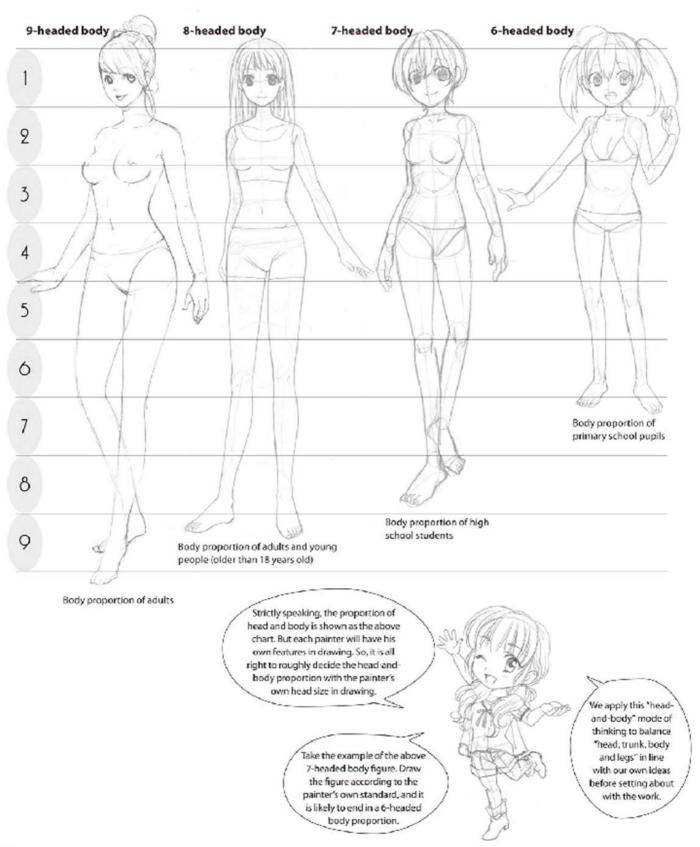
Typical head-and-body proportions

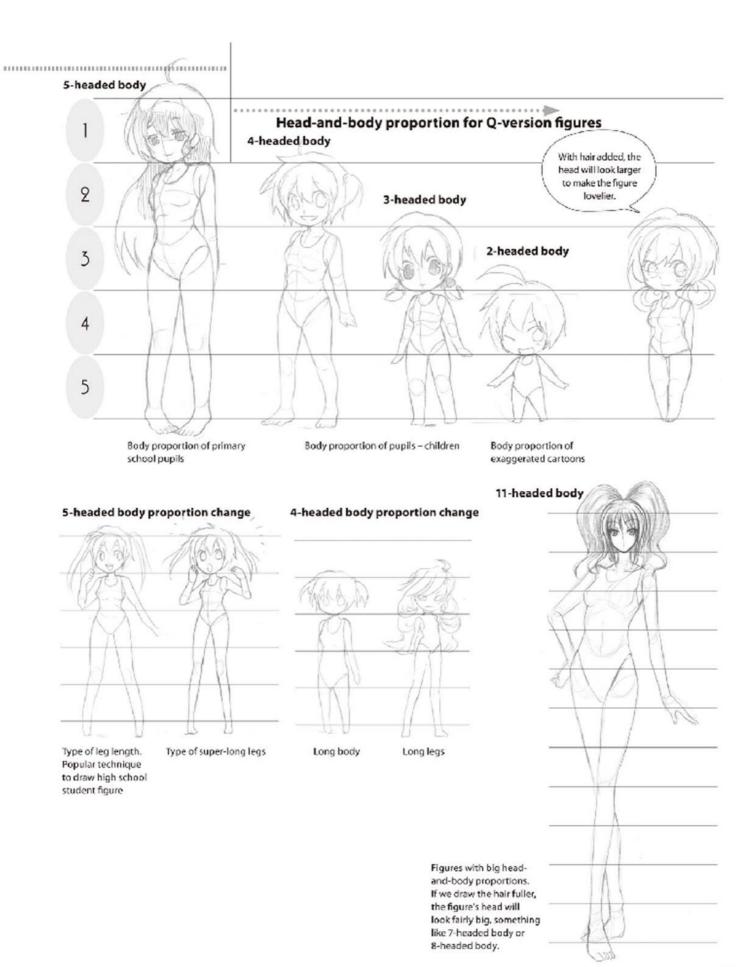
Ordinary figures largely have 5-to-9
headed bodies, and Q-version figures

Q-version figure mainly have 2-to-4 headed bodies.

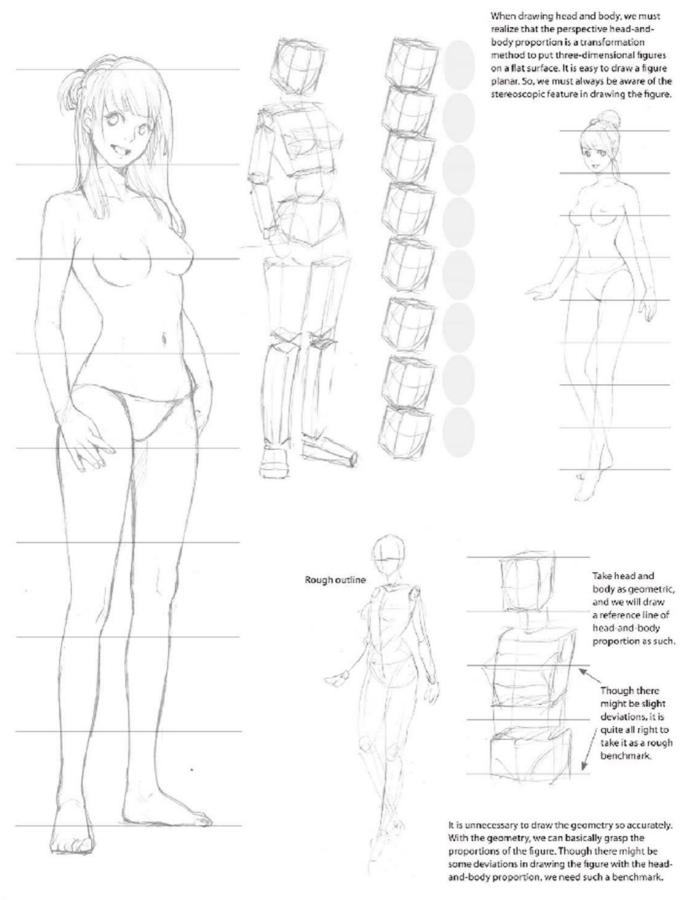
Ordinary figure and Q-version figure

Full length proportion of ordinary figures

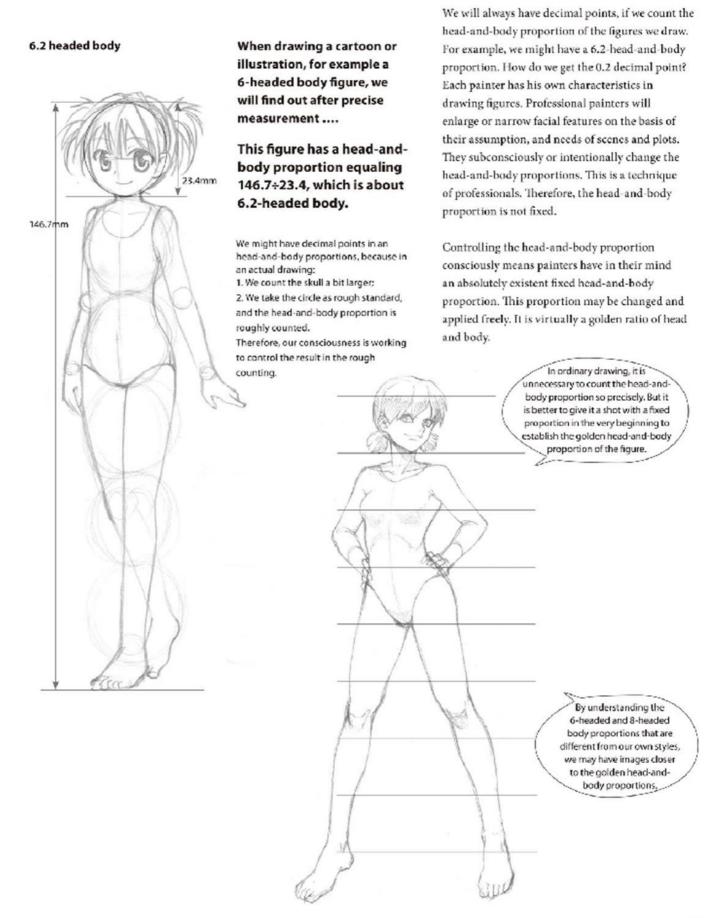




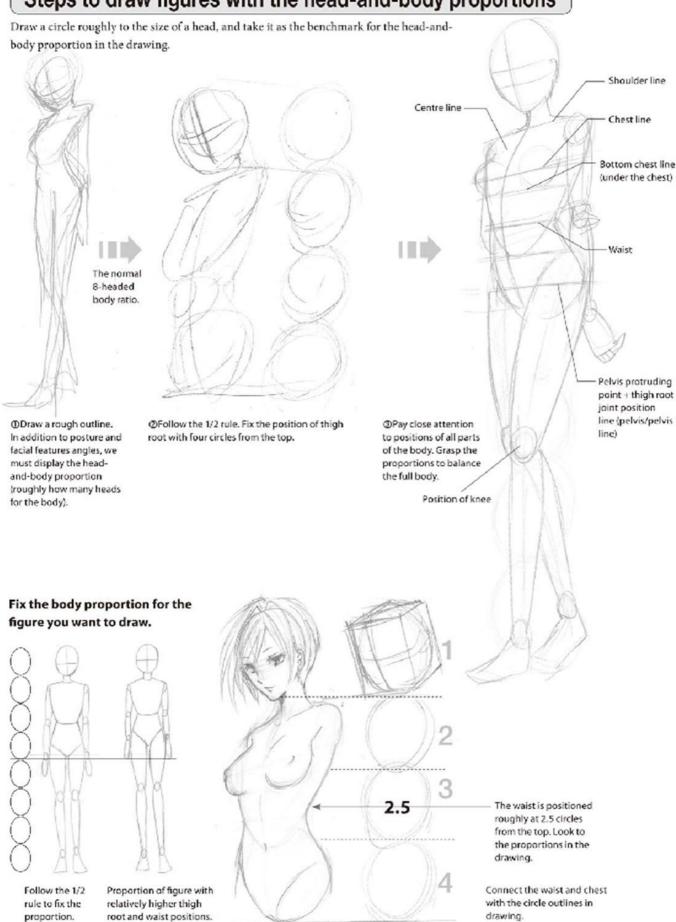
Realizing stereoscopic sense in drawing head and body



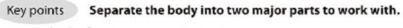
Why are there decimal points in the head-and-body proportion

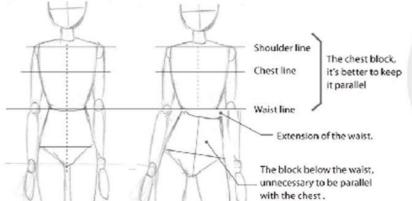


Steps to draw figures with the head-and-body proportions









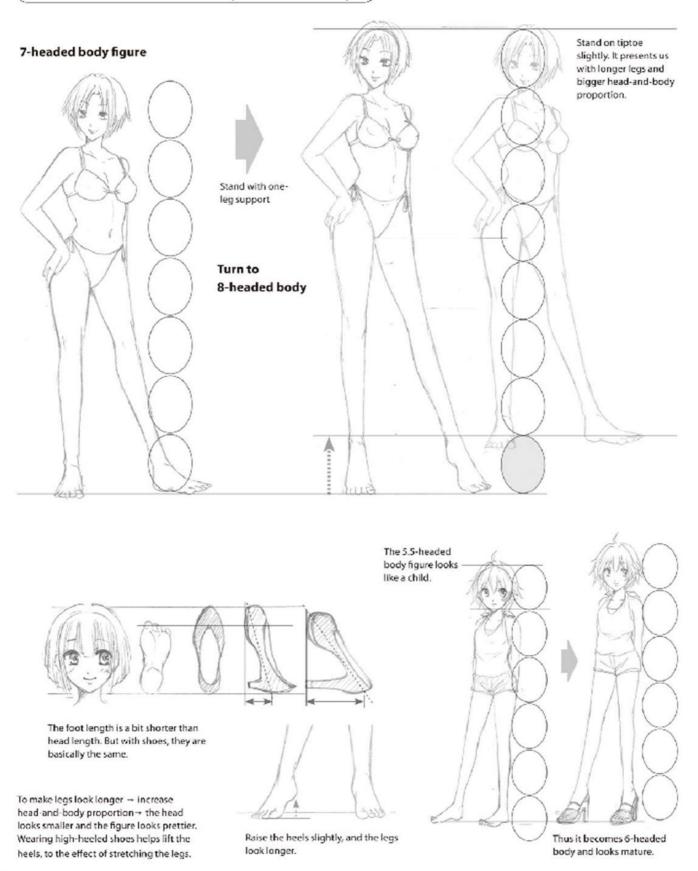
The parts that should remain parallel

- Chest block: shoulder chest waist (chest line – bottom chest line ~ waist line)
- Block under the waist: waist line
 —pelvis line

Adjust impressions of figure styles

Change the length of the legs and arms, and the figure will present different overall impressions.

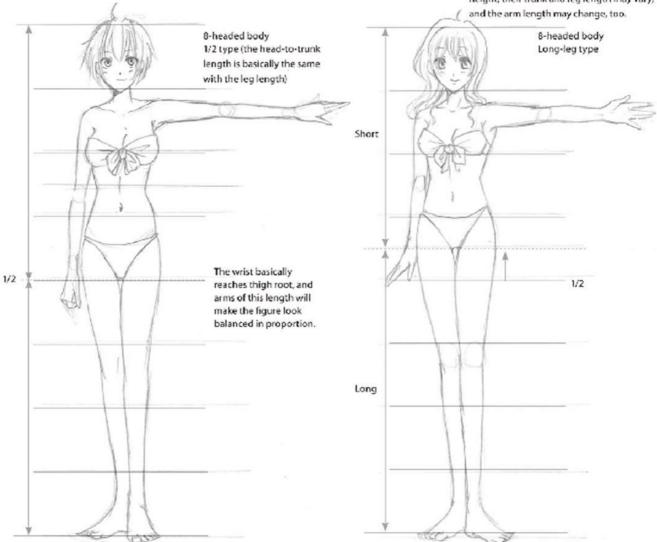
Difference between 7-headed body and 8-headed body



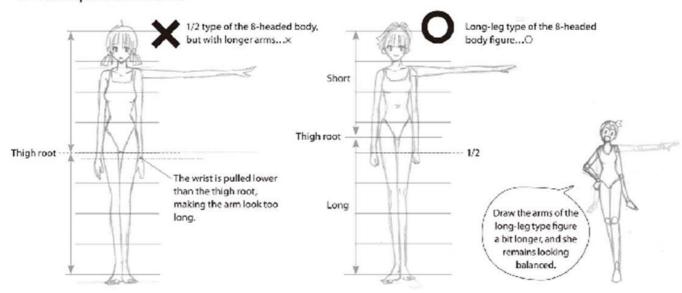
Change the length of arms according to the body

Fix the length of arms on the basis of thigh root. Make necessary changes with the length of trunk.

For 8-headed bodies with basically the same height, their trunk and leg length may vary, and the arm length may change too.



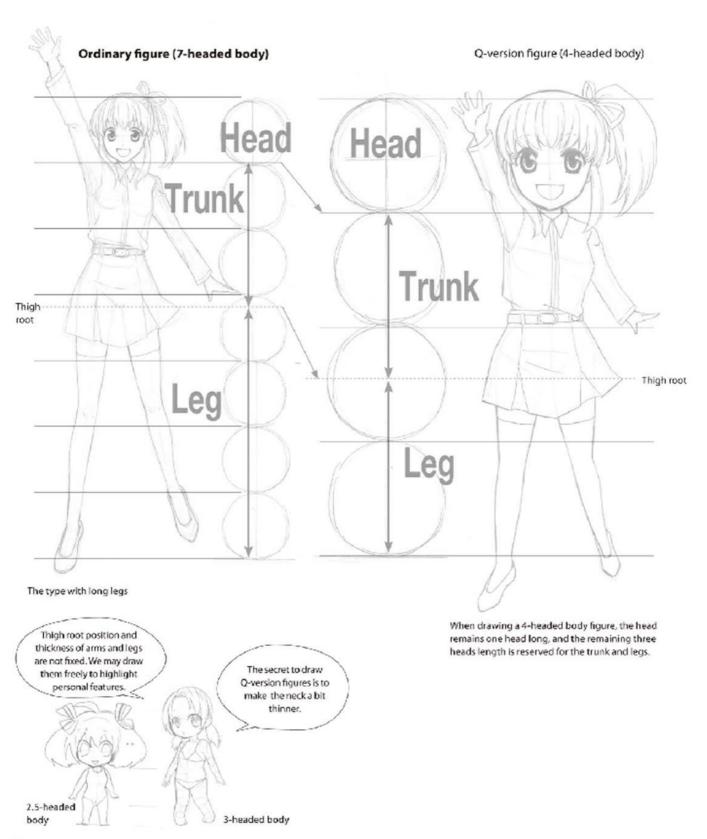
Technique to extend arms

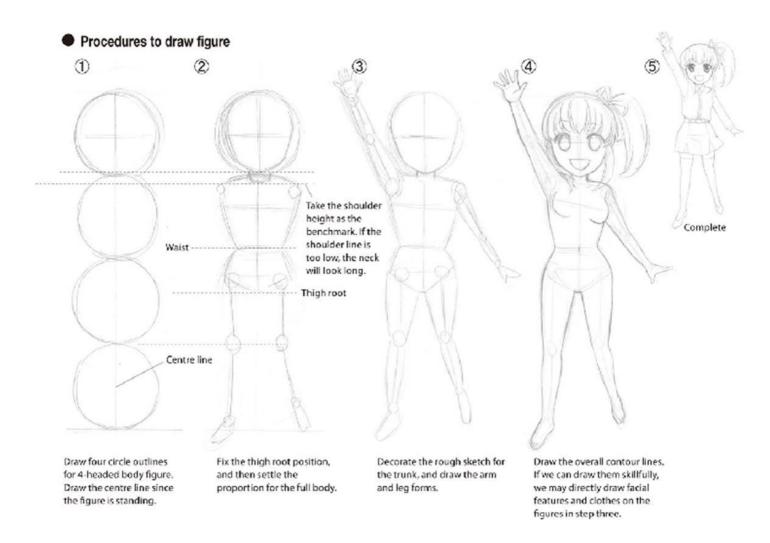


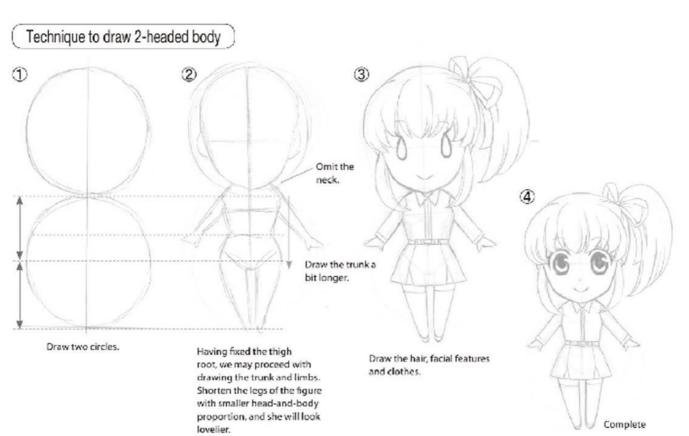
Big transformation of Q-version figures

Fix the thigh root position first when drawing Q-version figures. Then, determine the length of the trunk and legs.

Great change from ordinary figures







Child and adult

3-headed body. will look like three-tofive year-old child

Small head-and-body proportion → head looks big → look like a child

Big head-and-body proportion →small face →look like

an adult

7-headed body: senior high school students and older

Child

Proportion of the body

4-headed body: will look like six-toten year-old child

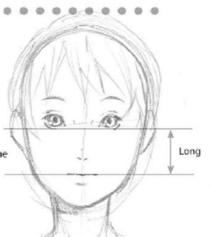
5-headed body: will

look like senior primary school pupils and junior high school students

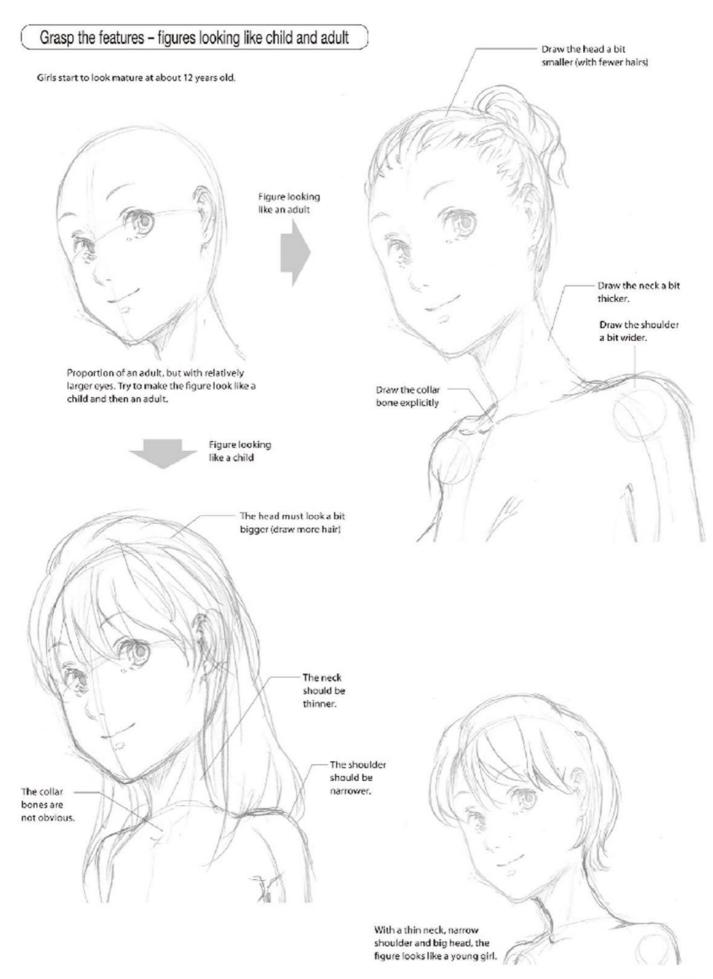
Adult

Proportion of the face

Lower eye line Short Mouth

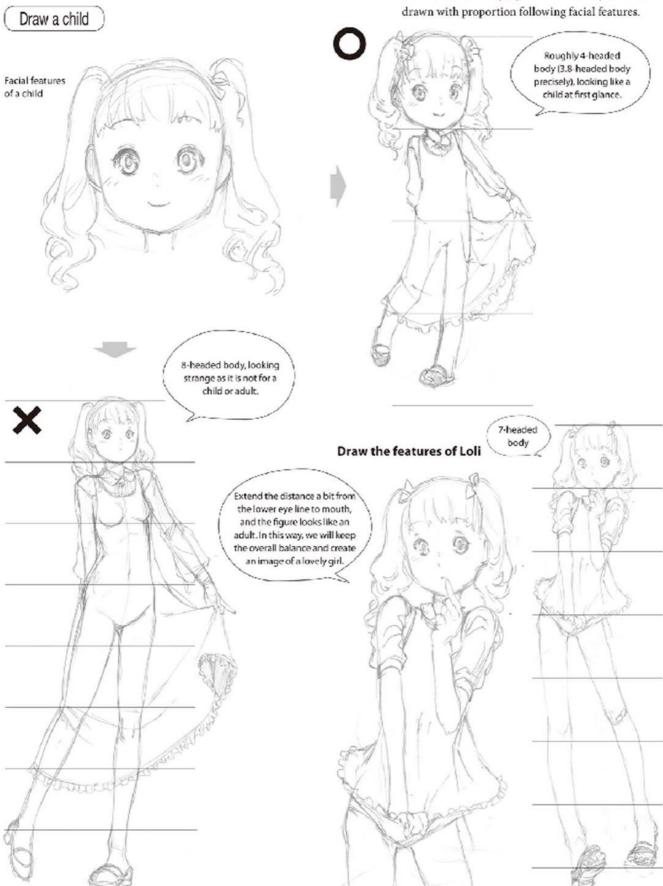


The key point is to distinguish the distance between eyes and mouth.

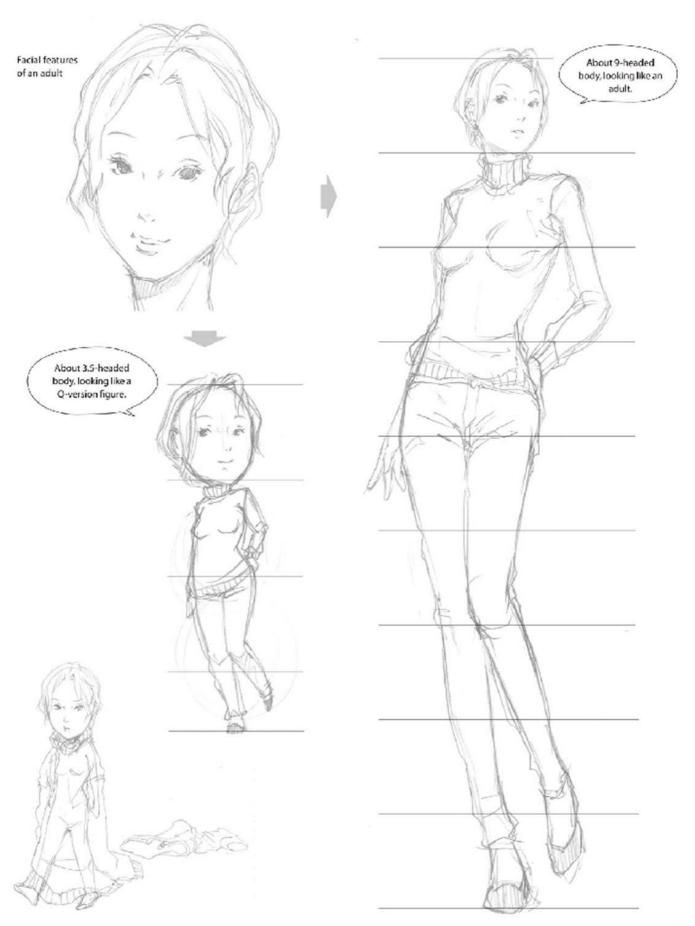


Draw the body along with facial features

Display the overall features of the figure with headand-body proportion. Distinguish an adult and child with facial features proportion. The body will also be drawn with proportion following facial features.



Draw an adult



Practice in drawing

~ Drawing techniques of Kazuaki Morita ~



What are the drawing techniques that stress overall impressions? Beginners should first grasp the head-and-body proportion principle. Measure the body proportion with circle outline, and then proceed to draw the figure.

But professional painters will not measure the proportion one by one in the process of drawing. They have cultivated the feeling in place of actual measuring with experiences of drawing tens of thousands of paintings. Here, let's listen to master Kazuaki Morita, a cartoon designer, supervisor, and figure designer, to explain how he designs figures. We must be aware that we should not only keep a watchful eye on how the professionals draw figures step by step. It is also unwise for beginners to follow the example of professionals by omitting many steps, if they expect to improve their drawing skills. I expect we can see what steps professionals have left out in their drawings. This will help us a lot to improve our drawing skills. Planning it well before drawing is the first step to success.

(Interviewed by Hikaru Hayashi)

01 Think about the overall form of the figure – Start with the facial features-head outlines



①Draw the full body of the figure on a piece of paper. First, let's decide the size of the figure's head, if we want to draw a 7-headed body. We must think about it clearly first, even if we draw only a circle for head outline.



②Draw an oval without any details. Then, we must think about the proportions and angles for the facial features on the basis of this oval.



About Kazuaki Morita

Kazuaki Morita was born in Shizuoka Prefecture, Japan. He has rich experiences in drawing cartoons. He is a very famous cartoon designer, supervisor, and figure designer, in the Japanese cartoon circle (consult P192).



Time the orientation and proportion of facial features with cross curves. Before starting to draw, we must think closely about the angle of the figure, so as to have a way of drawing the figure.

Draw the body outline - draw the figure by imagining the outlines for the head structure and sheltered body.



②Draw the outline from the upper part of the body to the waist



Oraw the outline of the thigh root, and then draw the pelvis outline downward from the waist.



@Imagine the stand-up posture of the figure. Draw the left leg first, as if along an invisible draft. Then, go on to draw the right leg.



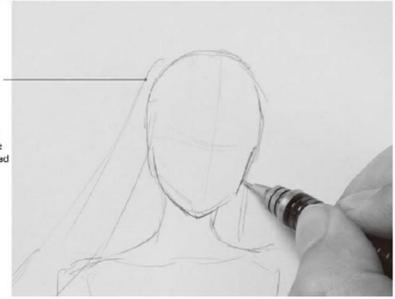
@Adjust the outlines of the trunk and legs. Draw the outline of arms starting from the shoulder. Here, we must sketch the contour of shoulder with armor.



02 Facial features draft - it is enough to draw out the expression of the figure in this stage

featuring head outlines





①Draw the contour line according to the formulated hairstyle beforehand.



②Draw the eyes.



②Draw the pupils of the eyes.



When drawing the hair, we must consider the growth line and head curve to draft the hairline profile.



Overall outline of communicator components. Trace out a rough form according to the sizes of facial features and eyes.

②Draw the ears. Now, we have the general facial features.

03 From trunk to feet - with explicit contour profile



ODraw the outline of necktie on the clothes.



②Draw the contour line of the chest. Draw the lower chest line first.



②Fix the precise position of the chest with the bra. Then, draw up the centre line (the centre line of clothes is also the centre joint of clothes).

The lines will change from here. This is called the key drawing stage in cartoon creation.



Trace out with the contour line of the trunk first.



Trace out the lines for the pelvis.



@Trace out the lines for leg roots.

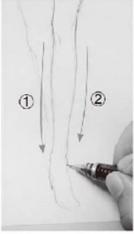
Trace out the lines for legs, in the order from the inner side to the outer side.



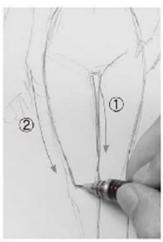
ODraw the lines for the left leg first, and then proceed to the knee.



Decorate the contour line and then trace out the external line.



②It is the same pattern to draw the part from the knee to foot. Complete the lines for one leg first.



® Draw the lines for the right leg. Remember to harmonize the thickness with the left leg in drawing.

04 Draw up the forms of chest, waist, arms and hands, and details of clothes



ODraw up the forms of chest, waist and abdomen, and details of clothes.



@Draw up the lines of leg roots clearly.



3Draw up the contour lines of clothes sleeves.



Draw up the hands exposed from the sleeves. We will not be able to describe the structures of arms and wrists, if we are unclear about them.

05 Draw up the facial features outline realistically and define the external features of armor



OPolish the hair properly to more explicitly display your imagination. Then, fix the contour line for the facial features.



@Draw up the details from collar and necktie.





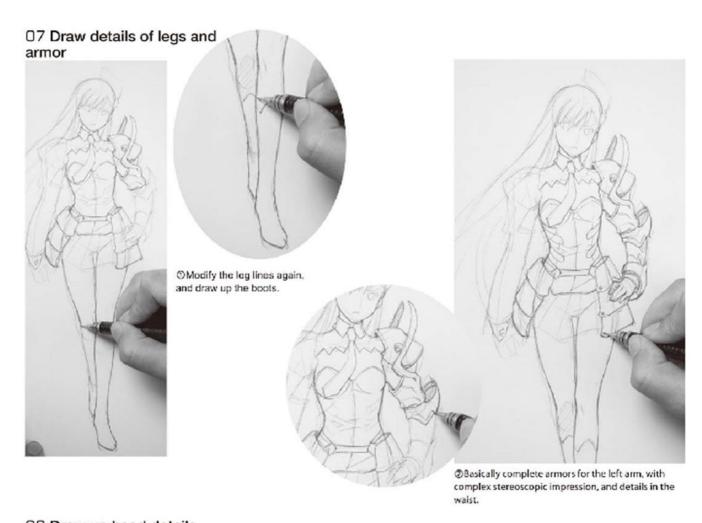
@Continue to draw up external features with shoulder and waist

06 Come to a conclusion

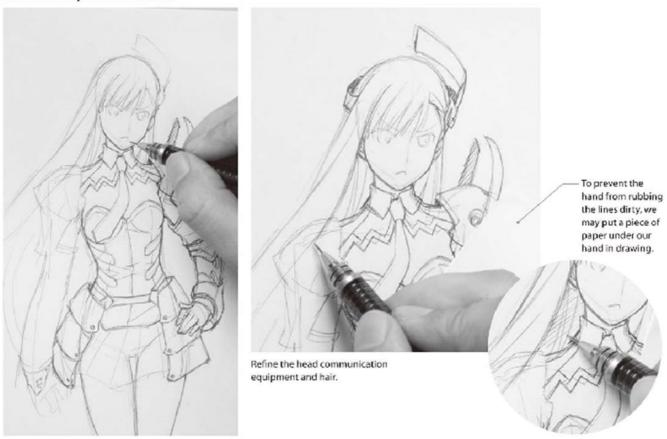


By this time, we may hold the rough sketch in our hands and observe it. Look at it from the reverse side to see if it is well balanced. Evaluate the drafted figure objectively and decide what to do next.





08 Draw up head details



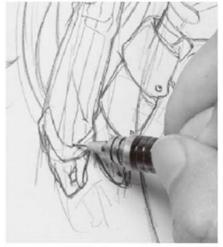
09 Go on with details - complete 80 percent of rough sketch



@Draw up detailed features of right shoulder.



②Draw up hair threads visible behind the body (expressed in shadows) to define contexts.



@Draw up details of sleeves.



@Draw up pleated skirt.



©Draw up details of boots.



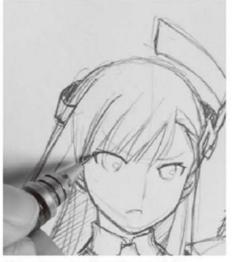


©Complete the figure except for facial features.

10 Complete details for facial features and hair



 Move paper directions along with the directions and features of the drawn lines, so as to make it easier to draw the figure.



Draw the contour lines of eyes explicitly.



@Draw up the details of the eyebrows and pupils.



Balance the right and left. Draw up the external outline of pupils.





Draw up shadows at the throat.



Modify the touches for the inner side to contrast light and shade.



 Remember to tidy the lines for the pupils to make them clear and definite.

11 Complete



Questions and answers in interview with master Kazuaki Morita

Hikaru Hayashi: What is the key element to fix head-andbody proportion?

Kazuaki Morita: Head-and-body proportion of course. We will basically fix it when drawing the figure from head to legs. Sometimes, we will settle it down by drawing only the head and shoulder width for a 5-headed body figure. On other occasions, we may draw the hands and feet of the figure larger, and the head-and-body proportion will impress us smaller.

In a word, practice more and we will become skilled at it.

Hikaru Hayashi: How can we be skilled at it?

Kazuaki Morita: In the very beginning, if we draw the head, we must know where to put the neck to join the trunk, and where to put the chest, waist and thigh roots. We must draw more to be acquainted with them.

Once we are skilled at it, the proportion of the upper body will not change. We may modify the positions of thigh roots, knees and legs later.

Hikaru Hayashi: What are the main problems with drawing overlooking angle and all postures of the figure (such as the posture in the right chart)?

Kazuaki Morita: The shoulders and thigh roots are crucial. In other words, we must be aware of the parts even if we cannot see them.

Hikaru Hayashi: Why do we have decimal points when measuring the actual head-and-body proportion of the figure?

Kazuaki Morita: We must adjust the head-and-body proportion of the figure according to actual situations.

For example, we may adopt the overlooking angle and draw the face a bit larger if we want to create a lovely environment. We may draw up the figure with our own imagination.

We may properly "extend" or "narrow" the figure on the basis of the benchmarks according to actual situations. Modified in this way, the painted figure will naturally show decimal points in the head-and-body proportion.

Take the example of a 8-headed body figure. It may be modified into a 6-headed body figure when the whole work permits. It must be analyzed according to concrete situations. We will draw up the most impressive head-and-body proportions in line with the scenes and demands.

This is why we have decimal points in the head-and-body proportion.

Hikaru Hayashi: The benchmark you said must be a fixed head-and-body proportion in our mind that is cultivated after practices and may be modified freely.

Thank you for your time and attention for the interview.



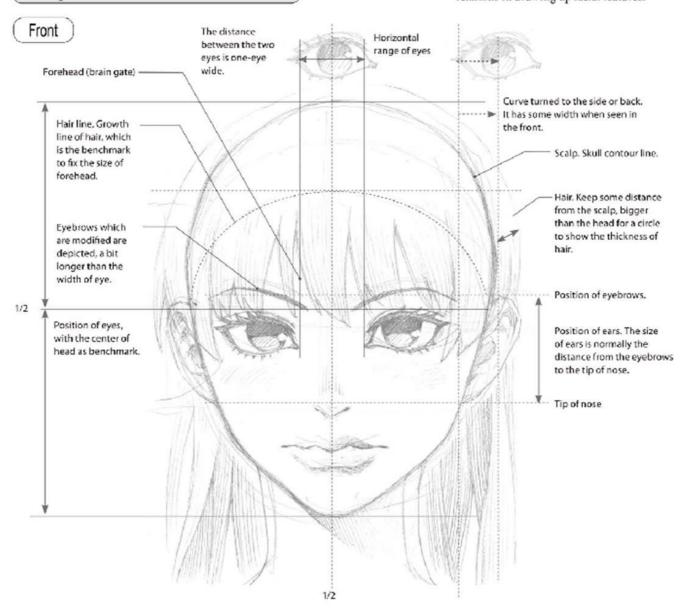
Chapter Two

Draw up facial features

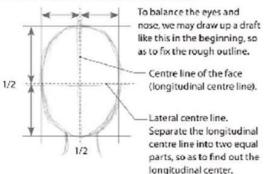
Techniques to draw up facial features

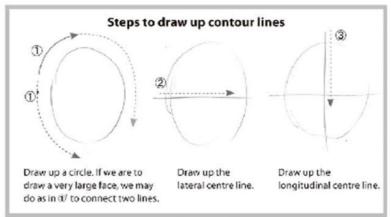
Facial features are the front of the head. The components of eyes, nose, mouth and ears will make the head into three dimensions. If we display the image in two-dimensional paper the components must be arranged in proportions. We must follow the proportions relations in drawing up facial features.

Proportion of facial features

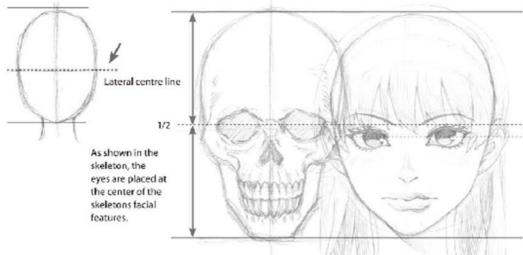


Draw up the fundamental head contour profile for facial features





Rough sketch of facial features. Relations of lateral centre line and the eyes

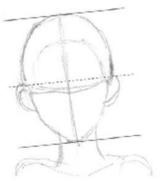


Lateral centre line is a benchmark! Fix the lateral centre line of our own style!

In drawing up a figure, many painters will put the eyes a bit lower than the centre line.

In this figure, we put the upper eyelid at the centre line.

Practical drawing in the illustrations



①Big contour profile

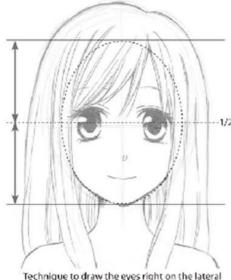


②Draw up the eye and hair outlines on the basis of the big contour profile.

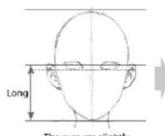


②Depict the details to complete drawing. Fix the height of the left and right eye according to the lateral centre line.

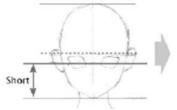
Practical illustrations



Technique to draw the eyes right on the lateral centre line.



The eyes are slightly higher than the lateral centre line.



The eyes are lower than the horizontal centre line.



Looks more like an adult.



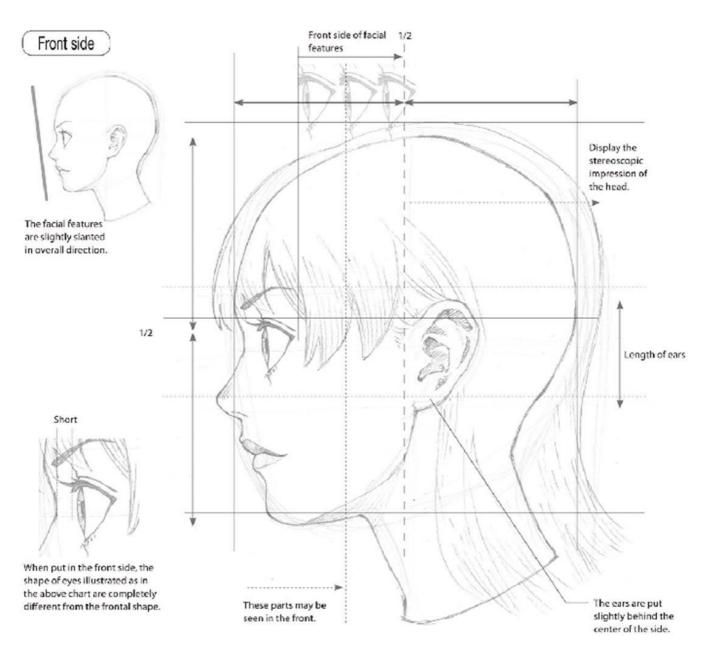
Looks like the face of a child.



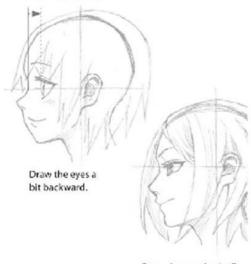
The lower eye line is placed at the lateral centre line.



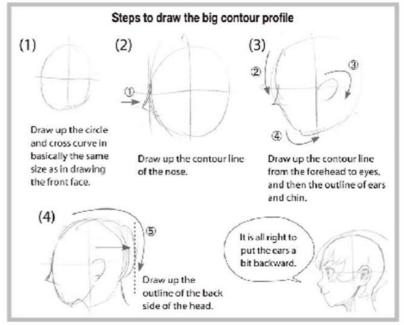
The upper eye line is placed on the lateral centre line.



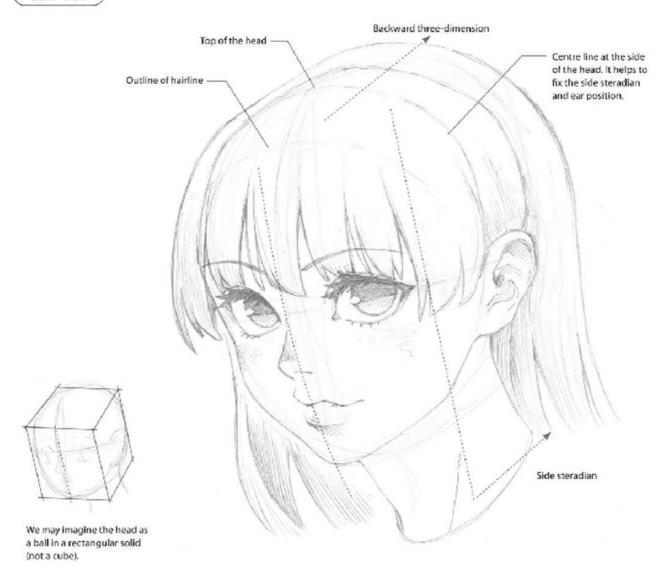
Modification techniques often used to draw the front side



Draw the eyes basically the same as in the front.



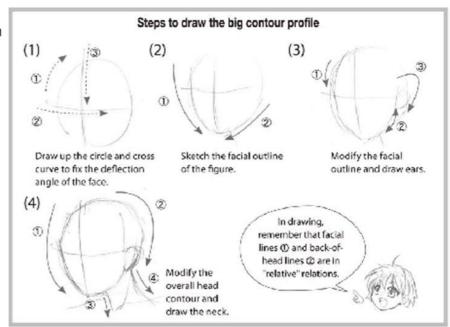
Semi-side



Expressions from facial features modification and position deviation

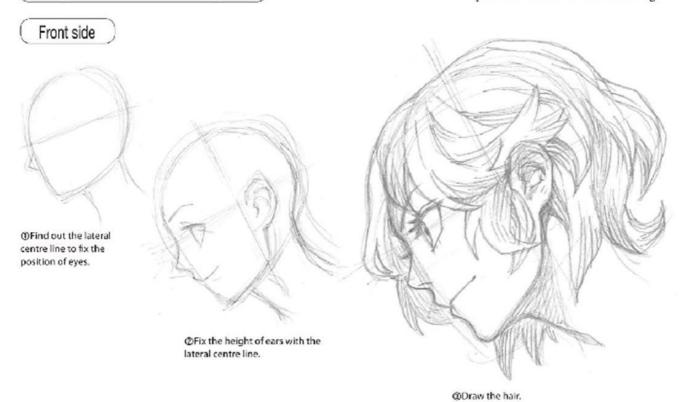


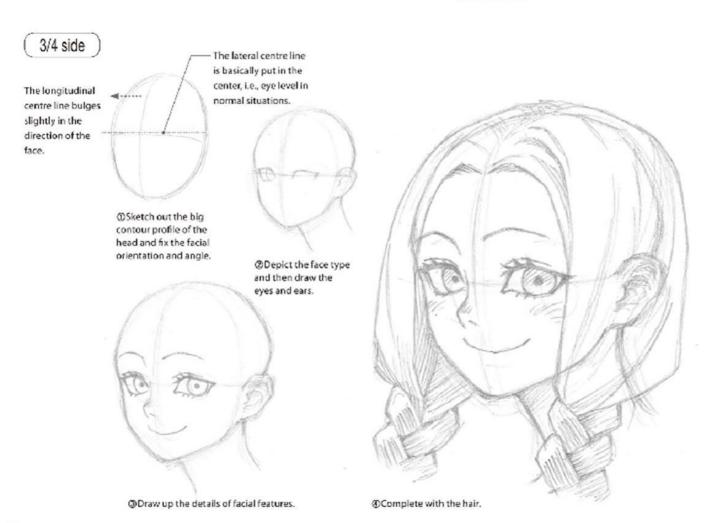
Stupefied and startled. Exaggerated mouth transformation.

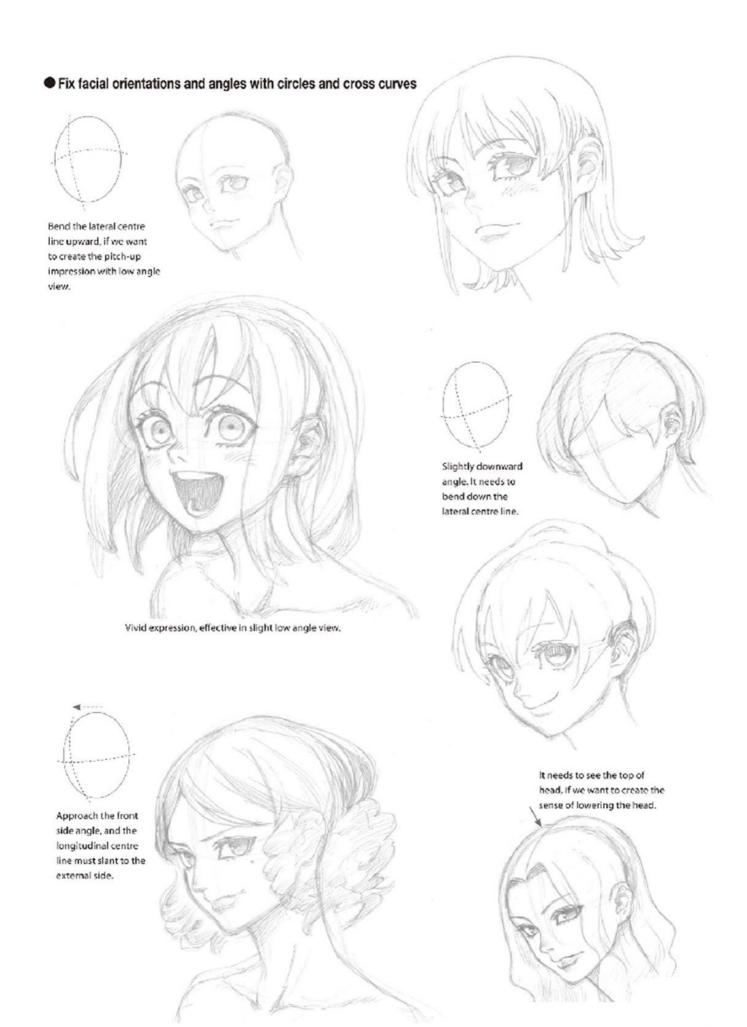


Steps to draw the figure

Observe how to apply the big contour profile of the head in actual drawing.





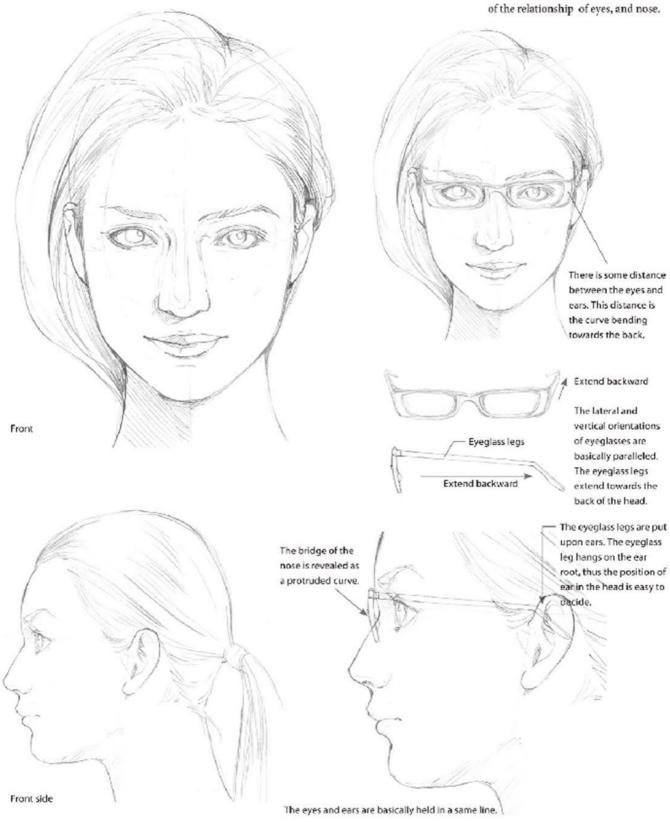


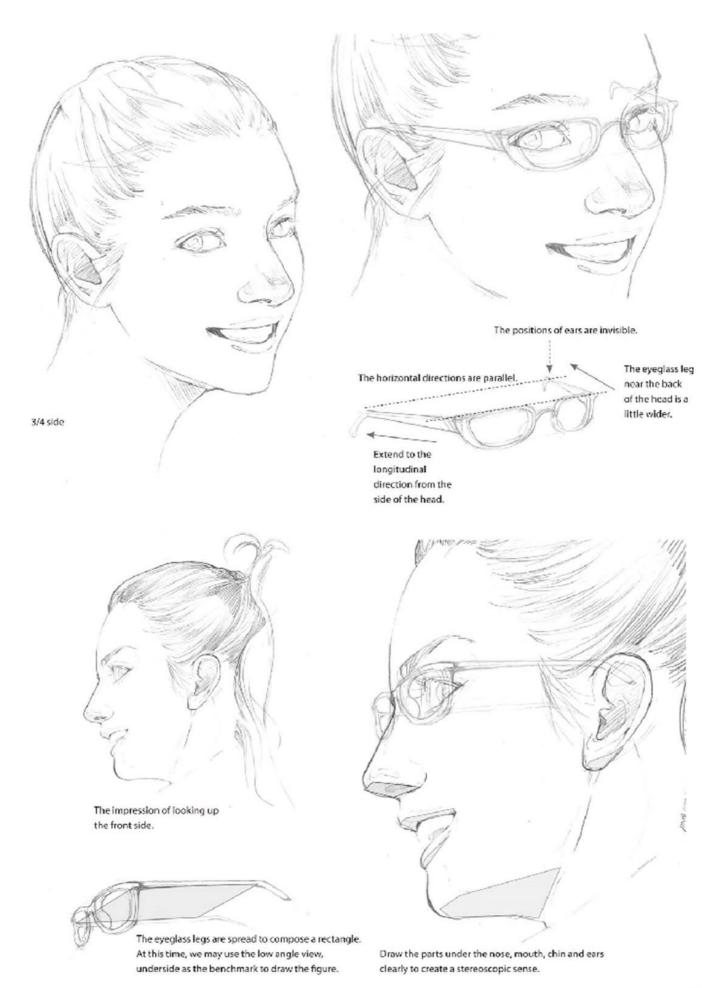
How to draw facial elements

Understand the relationship of these elements

Facial features comprise eyes, nose, ears and mouth. Let's learn the structure and techniques to draw these basic elements.

Let's experiment with drawing a face with eyeglasses. To draw the facial elements well, we must have a clear idea



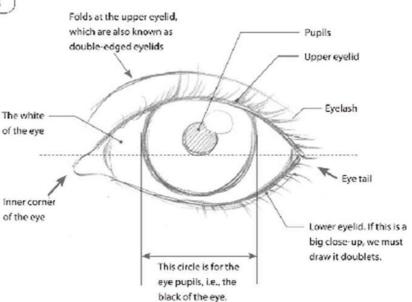


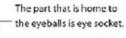
Eyes

Eyes are comprised of eyeballs and eyelids that cover the eyeballs. Whether eyes shine decides the sense of existence of the figure. This is an important point to endow vitality to the figure.

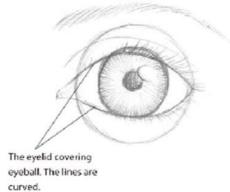
Shape and structure of eyes

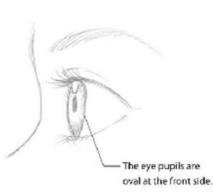


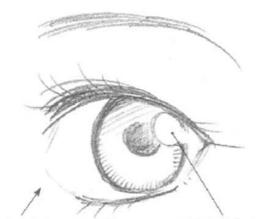






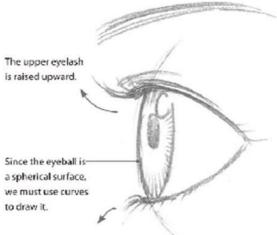






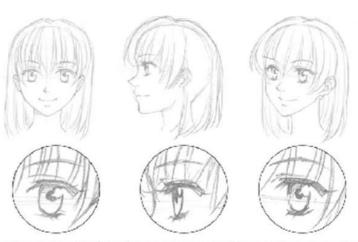
On most occasions, the inner corner of the eye is omitted. But we must remember the shape of the overall eyes when omitting it.

Highlight, Reflection of light in spherical surface. So, the form is rounded.



The lower eyelash is turned downward, and shorter than upper eyelash.





Think over the angles first before drawing any types of figures with any shapes of eyes.

Key points

- Proportion of the white of eye and pupils, and the size of pupils
- Shape of eyes and thickness of eyelashes
- Harmonize eyebrows and eyes to draw the figure well



①Draw up the shape of eyes and roughly the outline of eyebrows.

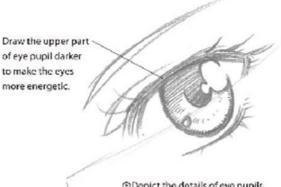


©Erase the lines for eye tails and eye corners. Draw the lines for upper and lower eyellds. Start to draw eye pupils.



@Draw the lines for eyelids and eyelashes clearly. Reveal the highlight in the eye pupils.





Depict the details of eye pupils to complete the drawing.

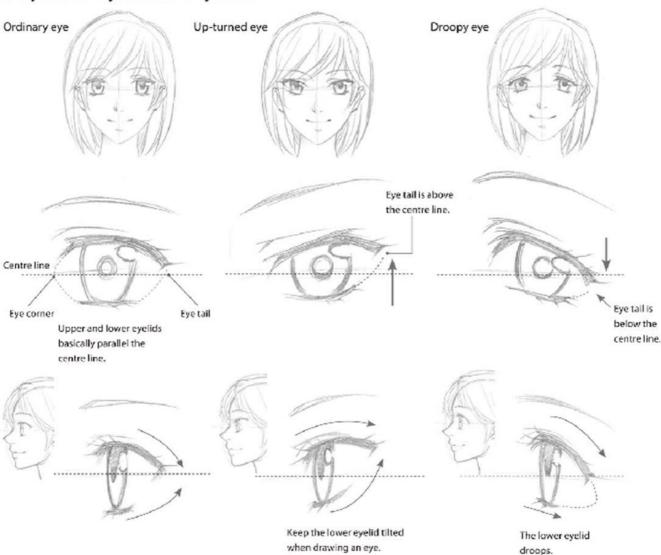
Crucial key points

The contour lines of eye pupils must be drawn as black and thick as the eyelid lines, with explicit lines. Otherwise, the eyes will look weak reducing the charms of the figure.

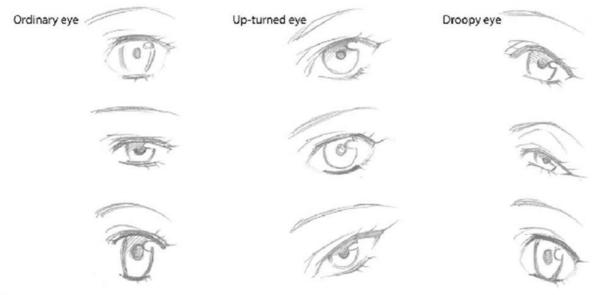
Techniques to draw ordinary eyes, up-turned eyes and droopy eyes

In cartoons, eye close-up shows figure roles. So, keep in mind to design and draw figure's eyes with distinct shape features.

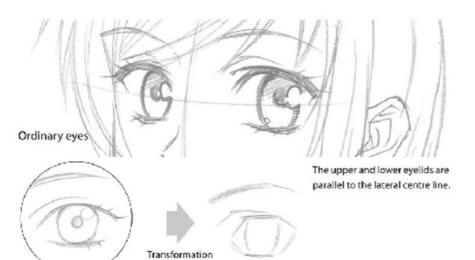
Try to connect eye tail and inner eye corner



All these changes will alter the depth and width



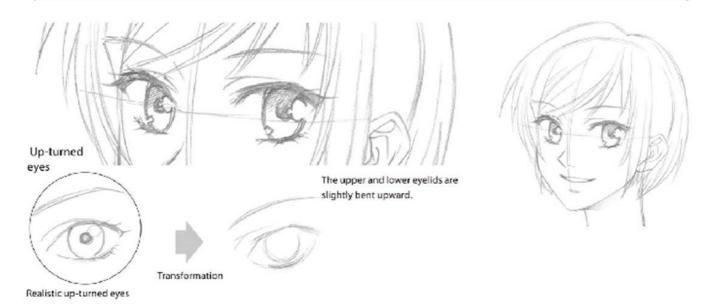
3/4 side angle

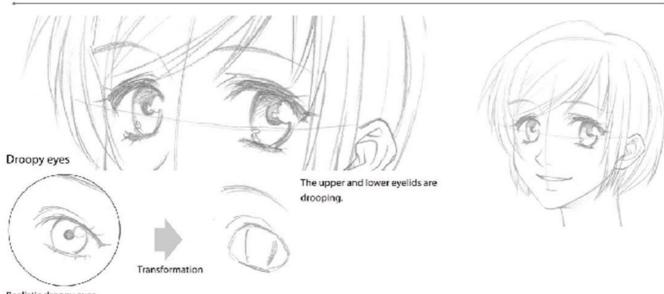


Draw the eyes with the lateral centre line as benchmark.



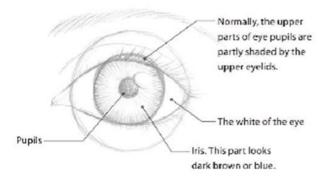
Realistic ordinary eyes





Realistic droopy eyes

Express the pupils



Changes in the size of eye pupils

Normal situation



Actually, the eye pupils do not change. The inner centre of the pupils change.





The pupils will enlarge in darkness.

The pupils will contract in bright places.

Color revelation of eye pupils



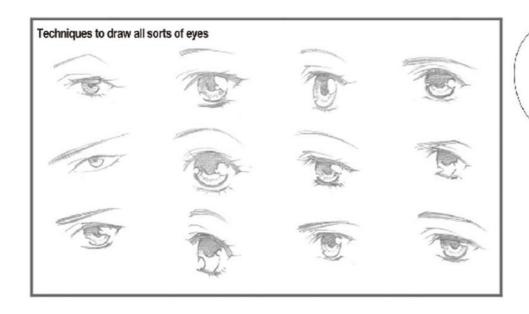
Black. The iris is mainly black.



Red and dark brown. It leaves a neutral tone.



Blue, yellow, gold and silver. Reduce lines and look white.



 Shapes of eyes
 Eyes change by integrating the size of pupils, thickness of contour lines, iris, and highlight. Since eyes are ballshaped, the highlight is

equally round.

Eyelash

Eyelashes are mainly drawn with fine lines, as well as bolder lines to thicken eyelids.

Draw up eyelashes



Common drawing methods

6

In clusters

Omit and modify eyelashes



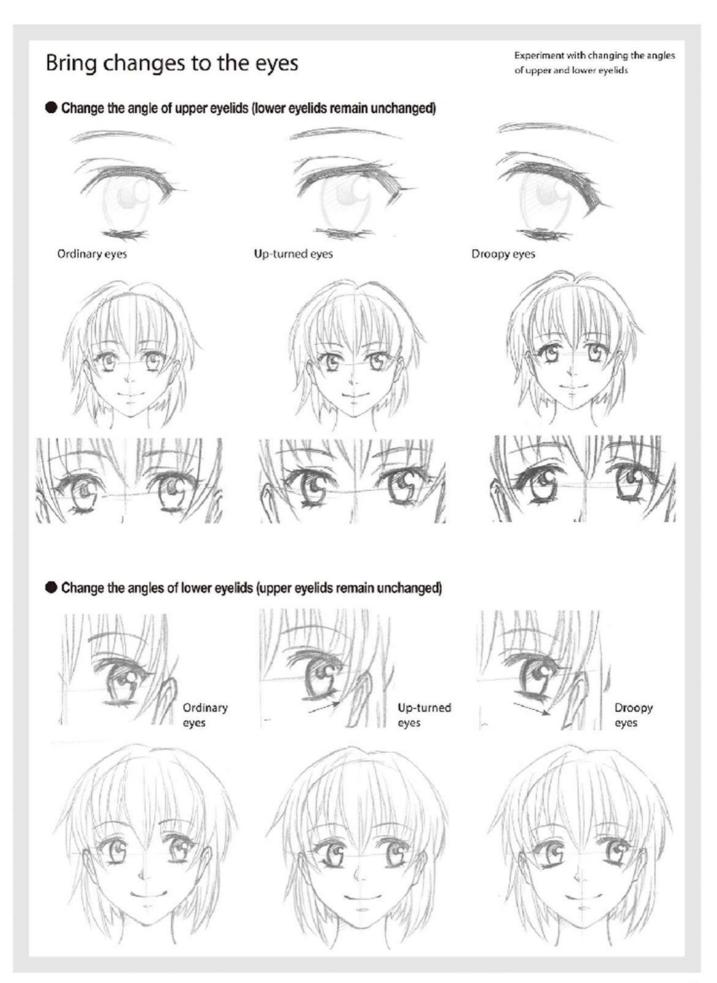
Simple type



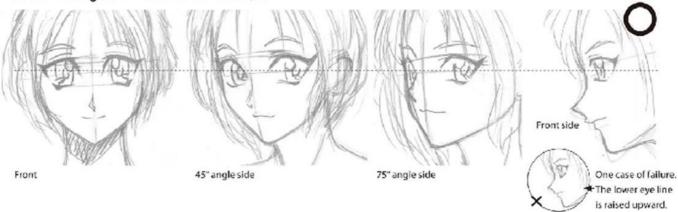
Explicit type

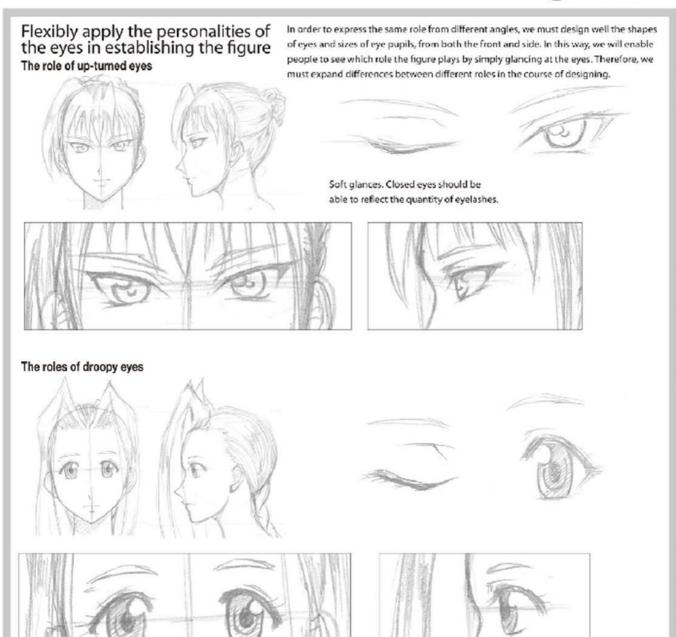


Point type/emphasis type



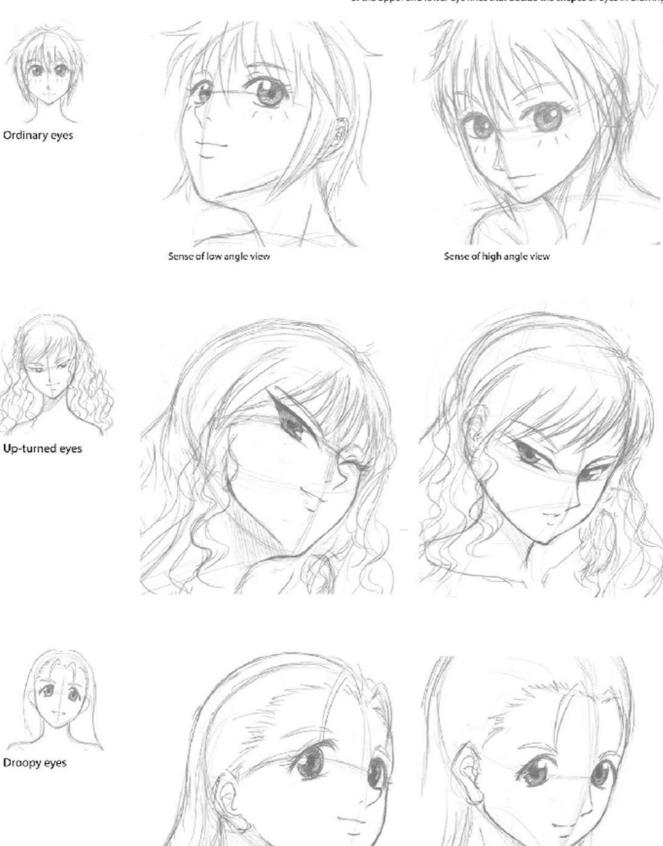
Normal angles from the front to front side



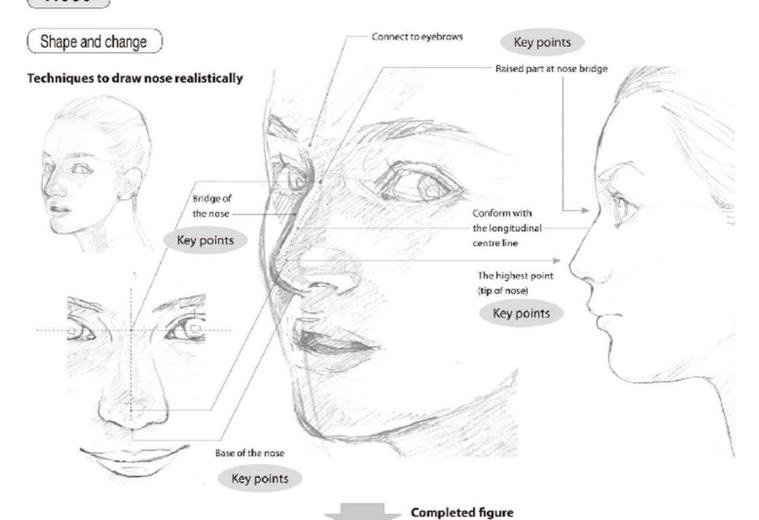


Changes in eyes with angles of elevation and depression

Take the lateral centre line as the benchmark. Pay attention to the angles of the upper and lower eye lines that decide the shapes of eyes in drawing.



Nose

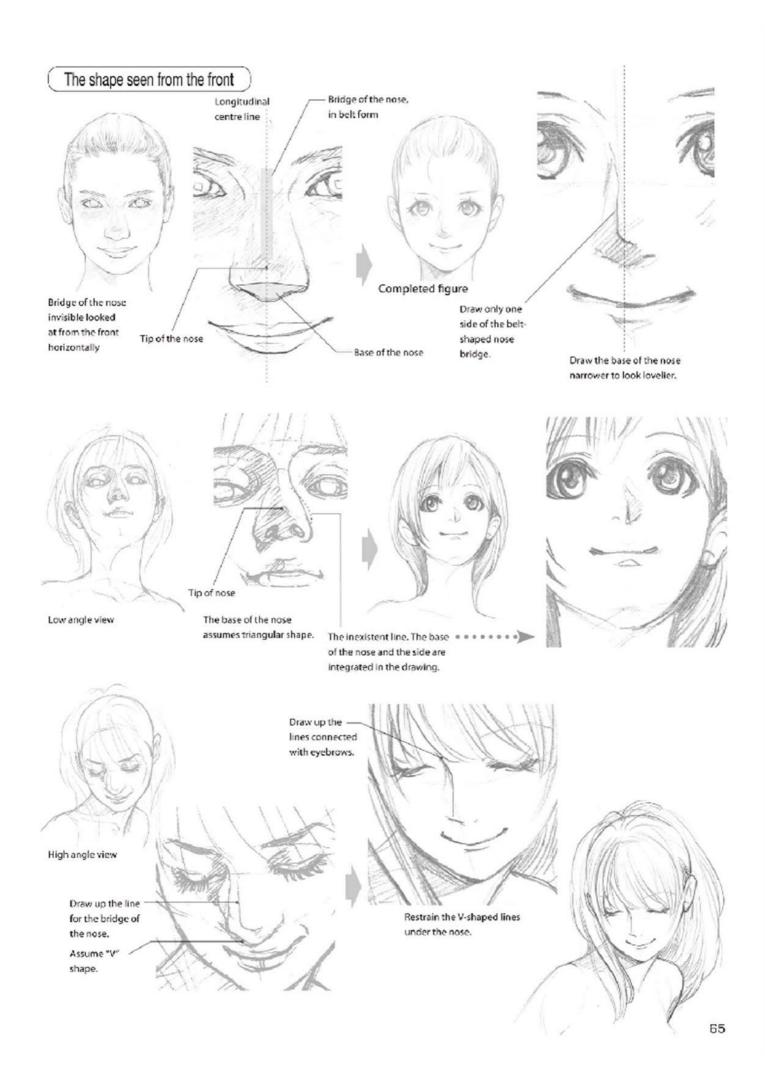


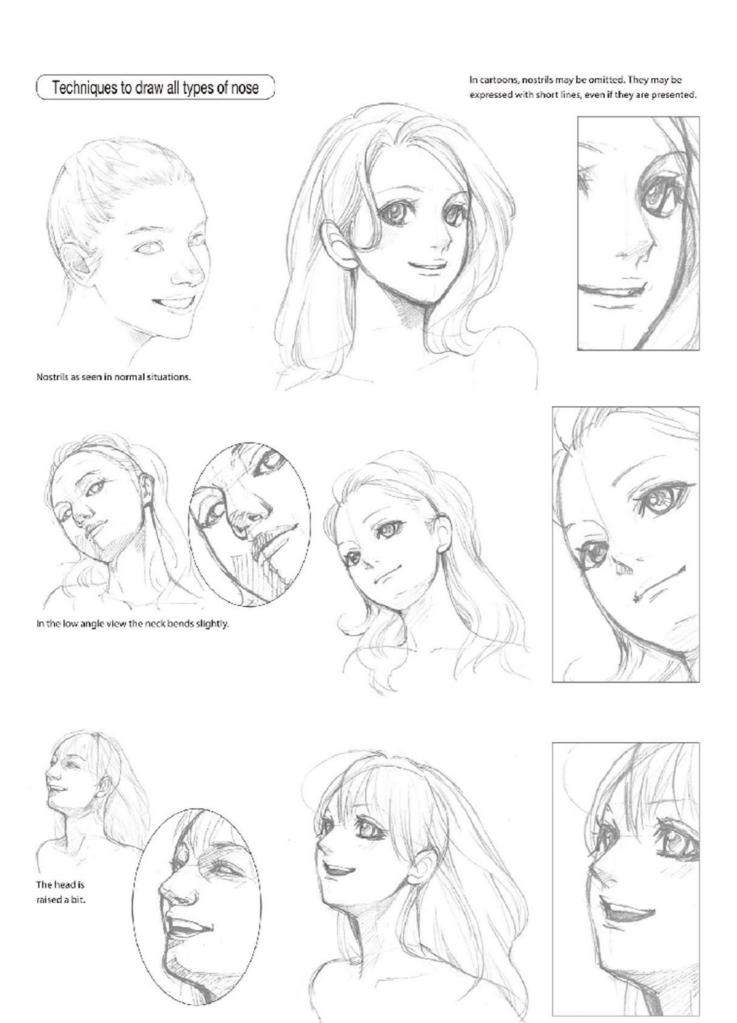


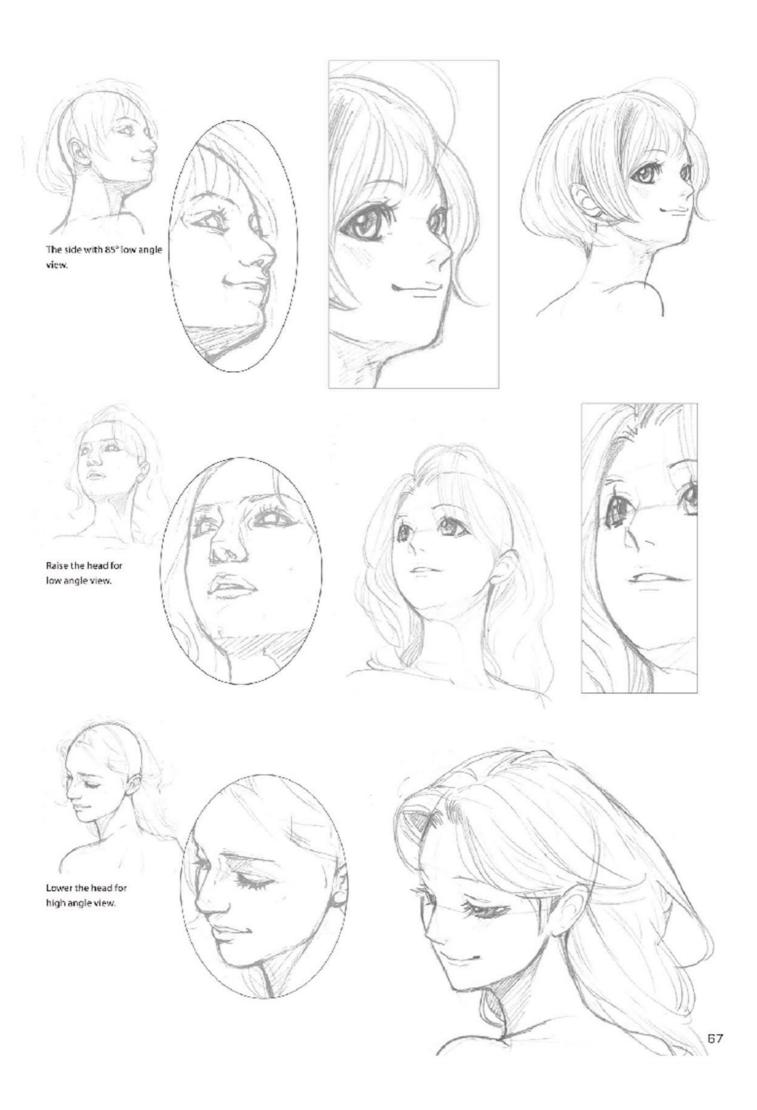
"<" shape technique to draw the nose

The parts starting to rise on the nose bridge, i.e., nose bridge, tip of nose, and base of nose, are expressed with lines. The nose is basically signified, looking like a "<" shape.









Mouth and lips

Lips

Normally in cartoons you draw a line between the nose and chin, and that is the mouth. But in drawing, we must remember the mouth may be open. This is a closed mouth.



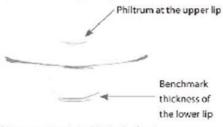
In conventional practice, the expression of lips is omitted.



Oraw up the contour line of lips, This makes the mouth more impressive. Even if the mouth is drawn small, the stereoscopic contour is very attractive.

Corner of the mouth. Corner of the mouth.





①Draw a normal sized lip in the front with your imagination



@Find out the centre line and draw the mouth with balance.



@Modify the lines.

Ordinary 3/4 side



Without lips



Draw with the longitudinal centre line as the benchmark.

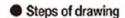


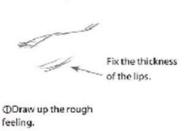
Reveal the contour lines of the lips.



When drawing from the ordinary semi-side angle, first draw up the outline of the mouth, and then follow the guidelines to draw the front mouth to keep balance.

Technique to draw the side with angles Technique that does not reveal the lips (simply



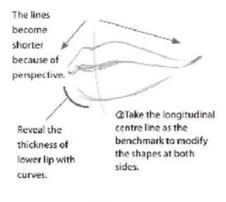


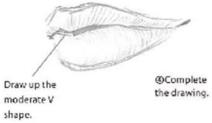
shadow at the lower lip).

draw up philtrum at the upper lip and the



@Draw up the rough contour line.





Technique to draw up open mouth



Technique to reveal the lips.

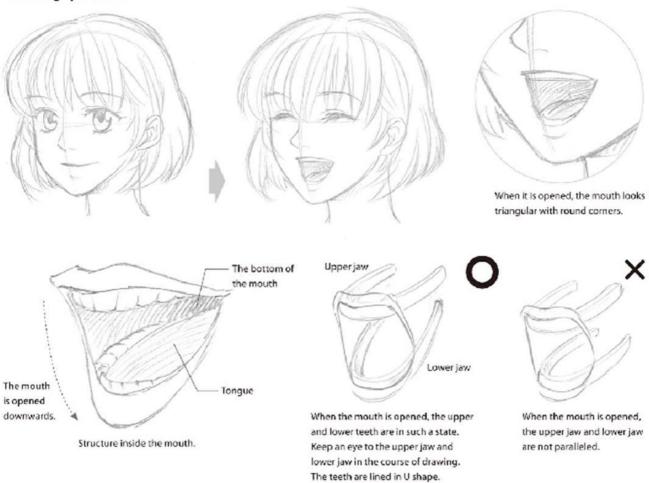


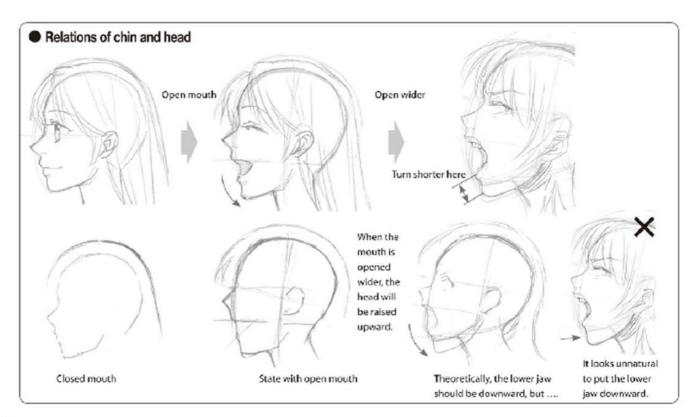
revealed.

@Complete the drawing.

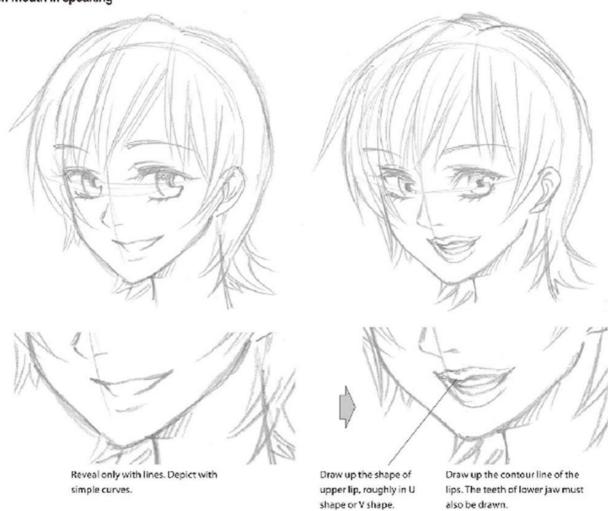
Open mouth; Structure of the mouth

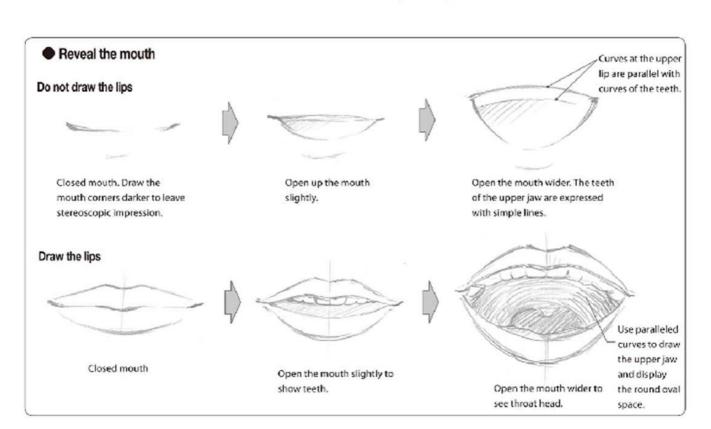
Smiling open mouth

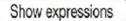


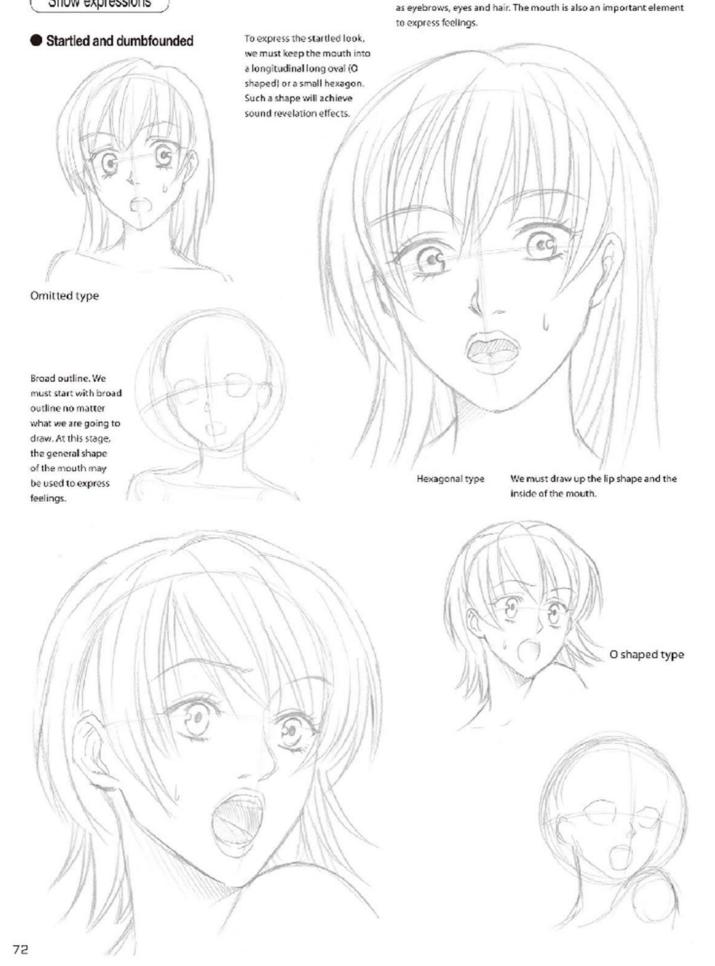


Open mouth in speaking

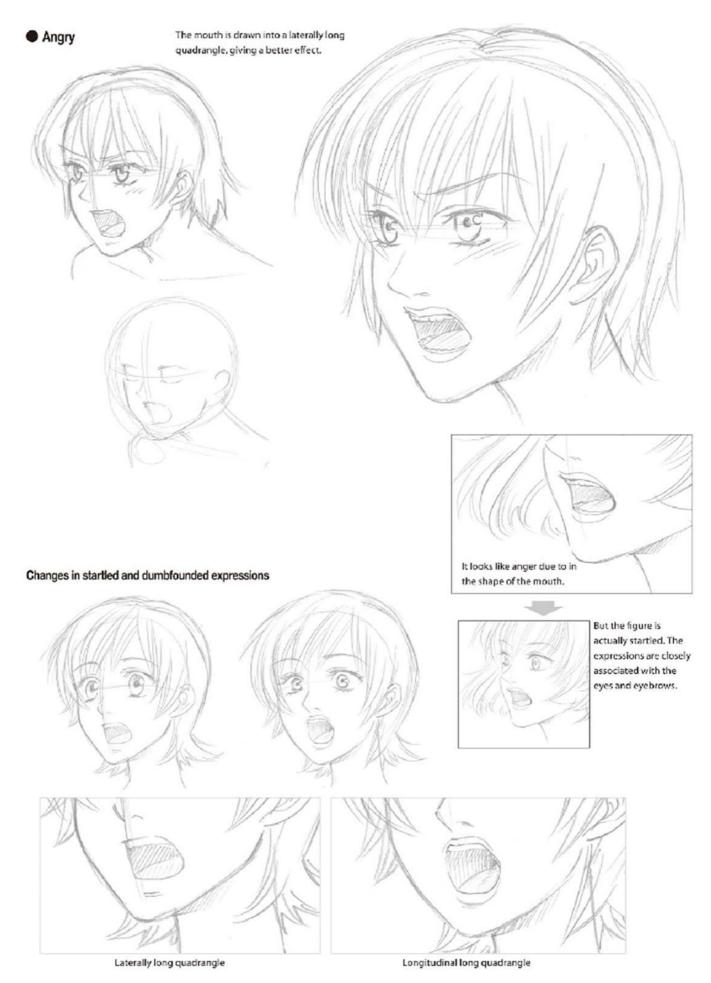


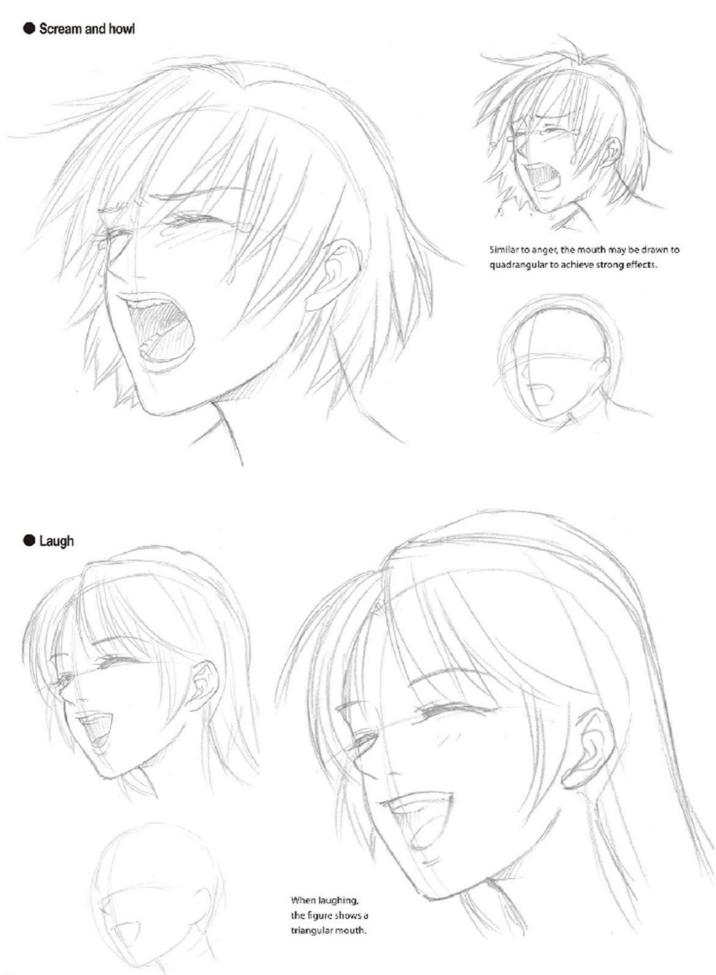


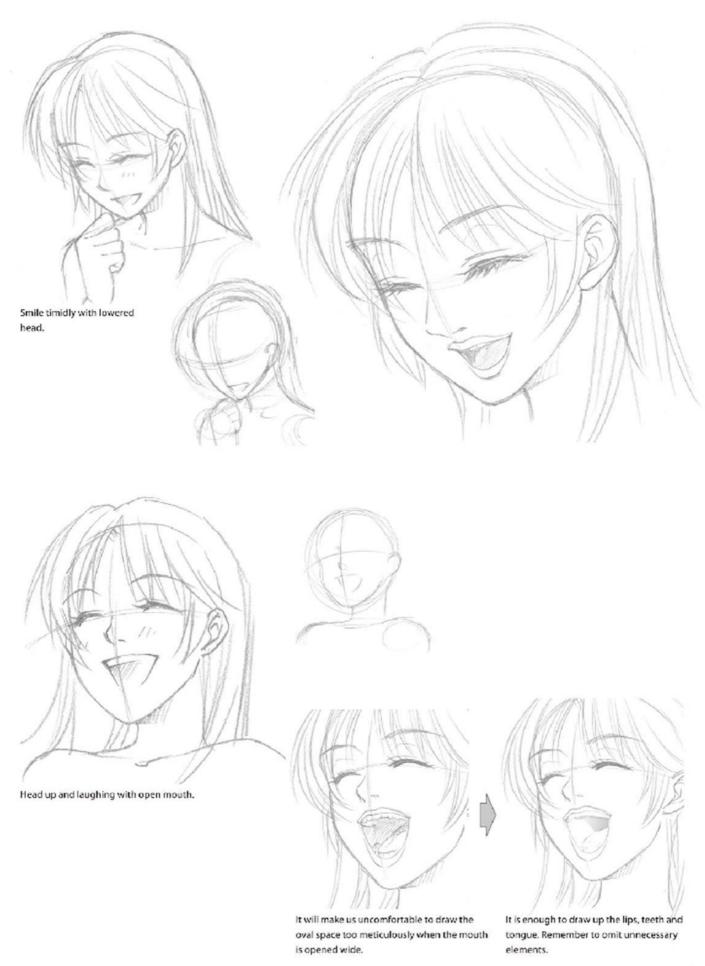




Expressions are shown through the dynamic parts of the head, such







Ears

Position and size of ears

In drawing ears, do not pay too much attention to specific details. Modify them on the basis of caring about their actual shape and position.



Ears can hardly attract people's attention when viewed in the front.



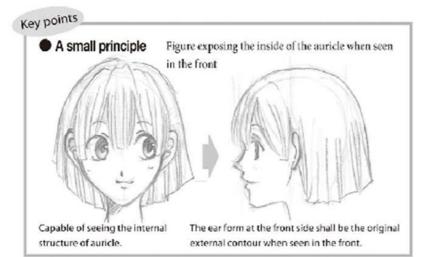
In the front side, the ears seem a bit smaller in accordance with common people's physical proportions.

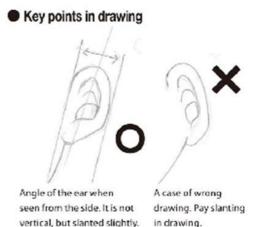


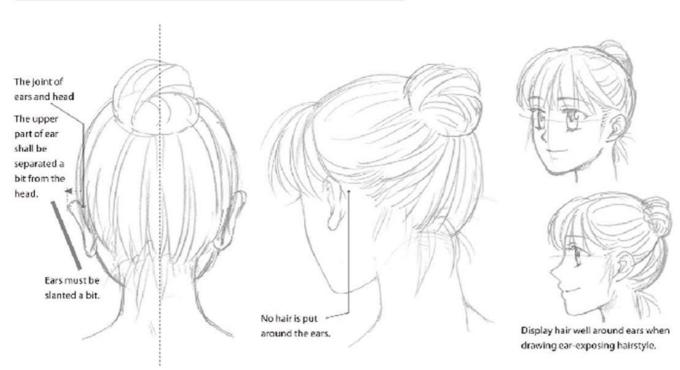
But it might look too dull to draw ears in the position between eyebrows and nose, as stipulated by theories.



If we totally abandon theories and arrange the ears well with other parts, we may make the figure lovely. That is permitted.

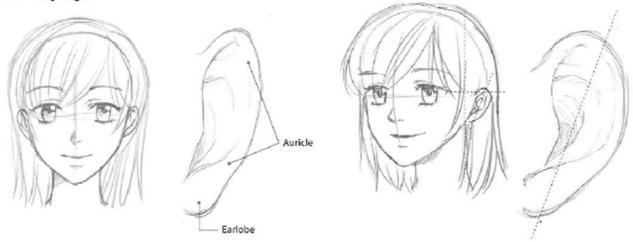




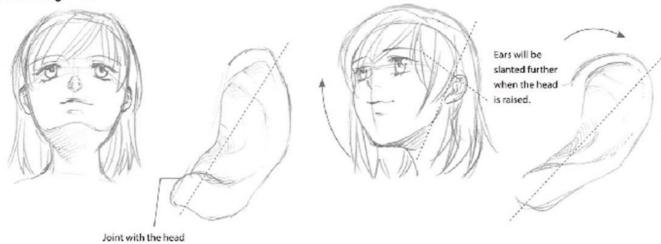


Modify the shape of ears according to the orientation and angle of head

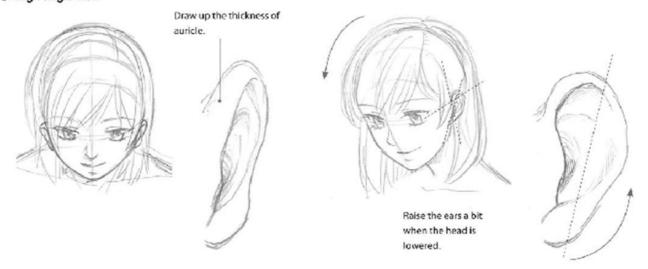
Ordinary angle



Low angle view



High angle view

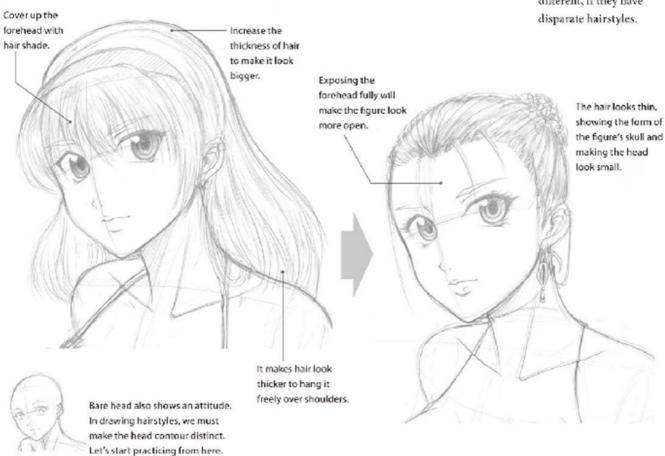


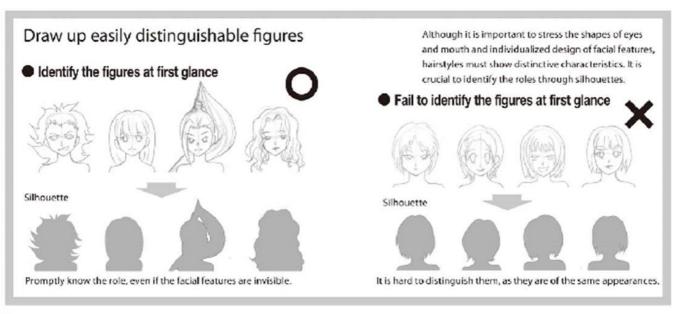
Start with hairstyle in designing a figure

In designing a figure, it is crucial to let people know at a glance which role she takes. To this end, hairstyle is important.

The overall change of appearance brought by the hairstyle

Figures with same facial features will look quite different, if they have disparate hairstyles.

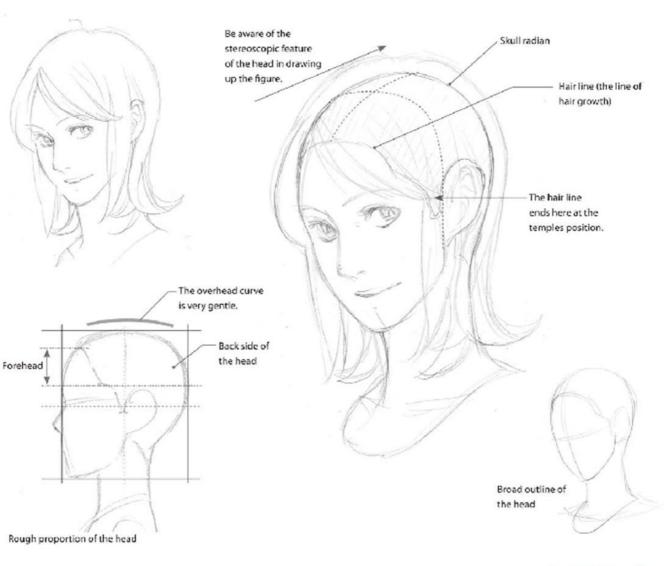


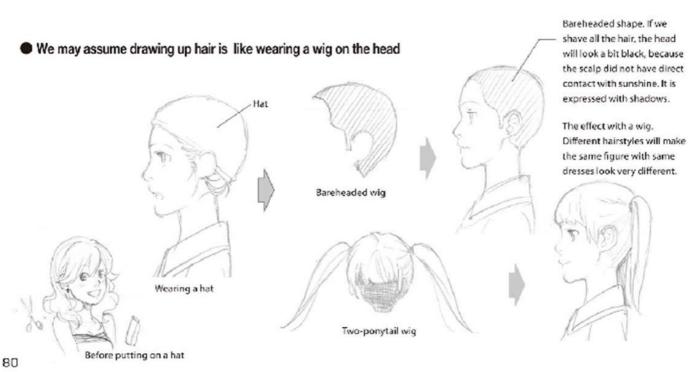




Hair must be drawn upon a bare head

Before drawing up hair, decide the shape of head and position of the hair line first.





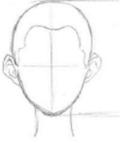
Hair line

Hair line

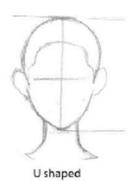
Hair line for the type of figures with

broad forehead

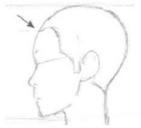
Typical hair line shape

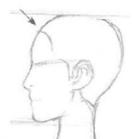




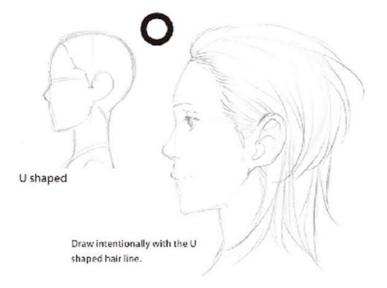


M shaped





Changes in forehead width

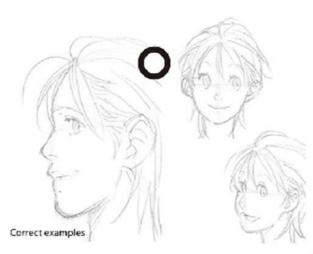


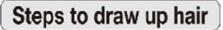


This is a result of drawing the forehead based on sensations, ignoring the hair line. It looks like the wig is misplaced.

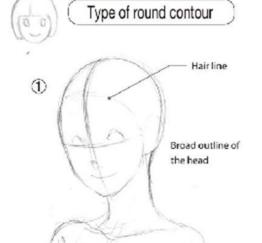
Hair will not grow in the forehead







Draw hairstyle by first fixing the thickness of the hair.



①Draw the broad outline, and make the head shape in particular accurate.

Broad outline of hair thickness. Draw along the contour line of the skull.

② Draw up the contour line of facial features and hair.

Key points

• Lines to be found
• Hair line
• Hair thickness
• External contour impression (silhouette)

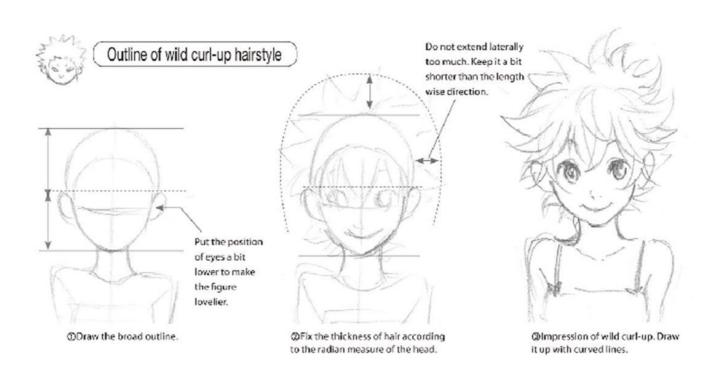
Start to draw hair shade with the hair line.

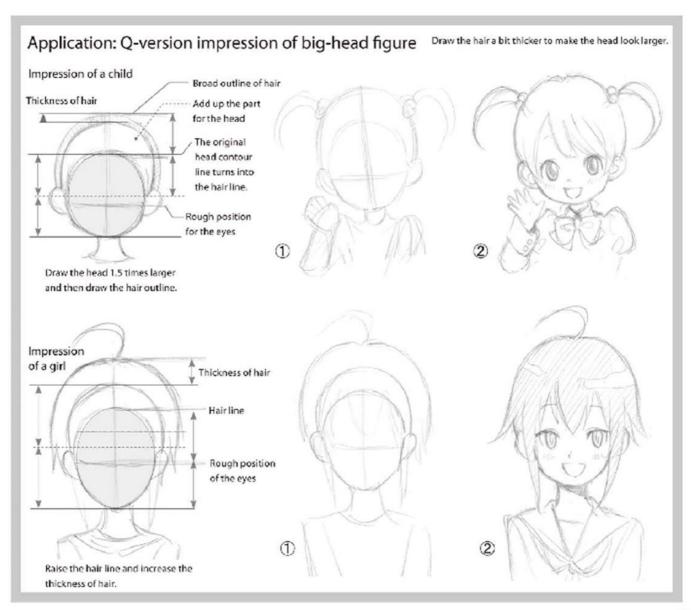
Hair line

Draw the fringe in the front.



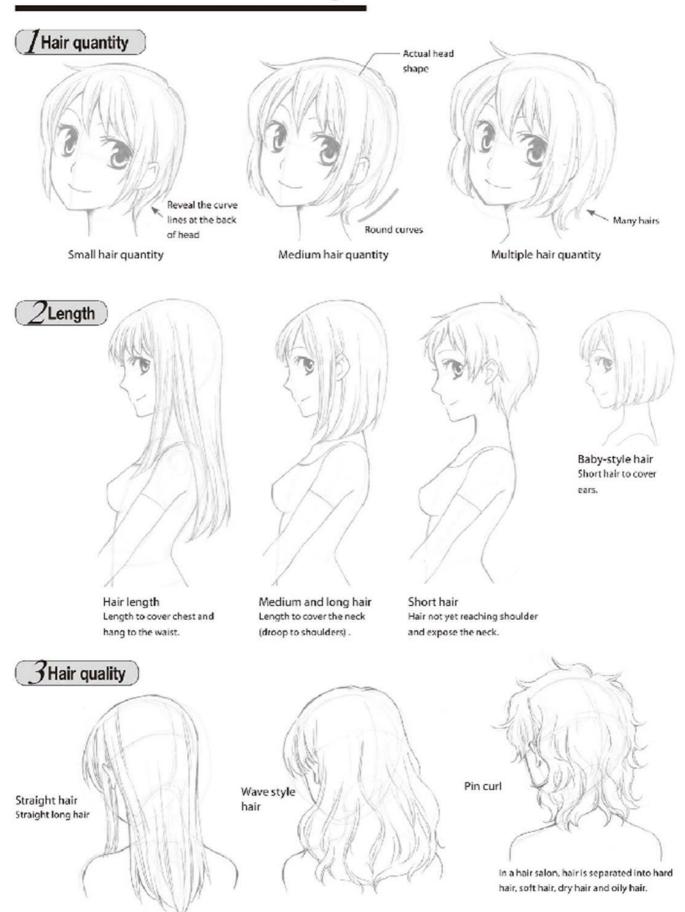






Seven elements to fix hairstyle

Making diversified hairstyles through all combinations.





White - dark brown I fin the cartoon sector, particularly when the works are not elucidated, the hair may be deemed as 'ordinary - black*.



Black or red hair



Blonde, silver, blue and yellow hair

5 Comb and braid the hair



Pony tail



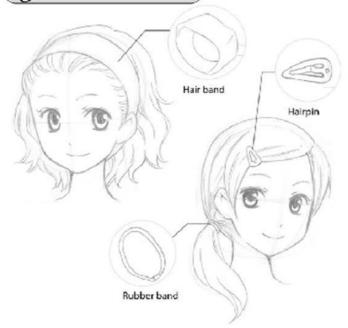
Coiled hair with three

braids



Braided hair

Wear hair ornaments



Symmetry and asymmetry

(Same face type and facial features, but with different hairstyles)





Asymmetry

Hair quantity

Hair quantity refers to the amount and thickness of hair.

One distinct feature of smaller hair quantity is that it is easy to expose the original shape of the head. Sincere hair is closely pressed on scalp, ears are easily revealed.



Multiple hair quantity Medium hair quantity.

Small hair quantity

Type with small hair quantity

Fundamental benchmark of hair quantity

Type of medium hair quantity





Hairstyle that may expose or hide ears.

Type of multiple hair quantity

The head will look large if it has multiple hair quantity.



It is not easy to balance short hair in multiple quantity. Remember to balance the left and right range in drawing.





Small hair quantity

- · Small total hair quantity
- · Thin hairline
- Softly stick to the scalp (will not puff)

Draw with thin lines to reveal the impression of straight hair.



Display the round curve at the back side of the head.

The hair will flow inward along the neck contour (without a sense of being propped up or puffed up).



The hair will be fluffy, with tenacious hair root. It will be easier to express with such a feeling.

Medium hair quantity

 The hair looks a bit hard in quality.
 It will do by simply create some fluffy impression and degree of hardness.

It is all right with straight hair and bit wave hair. It may be expressed with ease curves.



Display the fluffy sense of hair with curves.



Multiple hair quantity

- · Large amount of hair
- The hair becomes warped upward and unfit because of hard hair quality. Many hairlines look warped up.
- The hair is drawn in separate lines, no matter if it is thick or thin.

The lines may be thick and thin, and adjustable in the course of drawing.



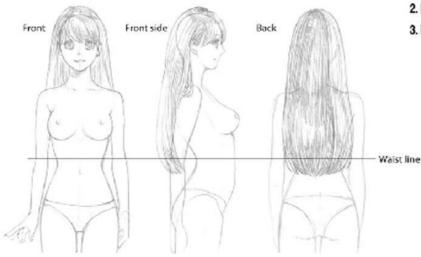
Although the hair looks fluffy, it will spread along the head contour line according to head form.

2 Length

Hair may be separated into three main styles of long hair, medium and long hair, and short hair.

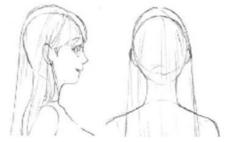
Draw up the hair with fixed length

Long hair



Key points

- 1. Fix length
- 2. Fix hair quantity
- 3. Draw up views for the front, front side and back

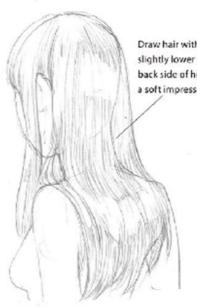


In addition to hair quantity, we must determine relations of hair and ears, and the form of spreading hair.

Practice to grasp hair trends



When drawing hair, fix the position of hair vortex first, and proceed to draw curves along the curved surface of head.



Draw hair with curves slightly lower than the back side of head, leaving a soft impression.



Draw up contour of strands of hair and modify them slightly at the end.

Typical black long hair



The hair is spread irregularly near the end.

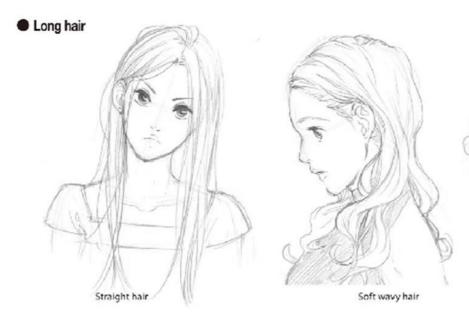


The hair gathers near



The hair is bundled near the end.

Features of hair of three lengths (distinguish key points for drawing)





Wakame style curly hair multiple

Long hair is usually drawn with less quantity Long hair will normally droop and fit, because of the weight. Hair longer than shoulders is seen as long hair.

Short hair



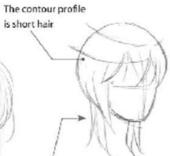




Short hair leaves the neck refreshing No matter the quantity, short hair will clearly expose the neck (refreshing the neck).

Medium and long hair





The neck and collar are covered up, not looking as refreshing as short

Straight hair





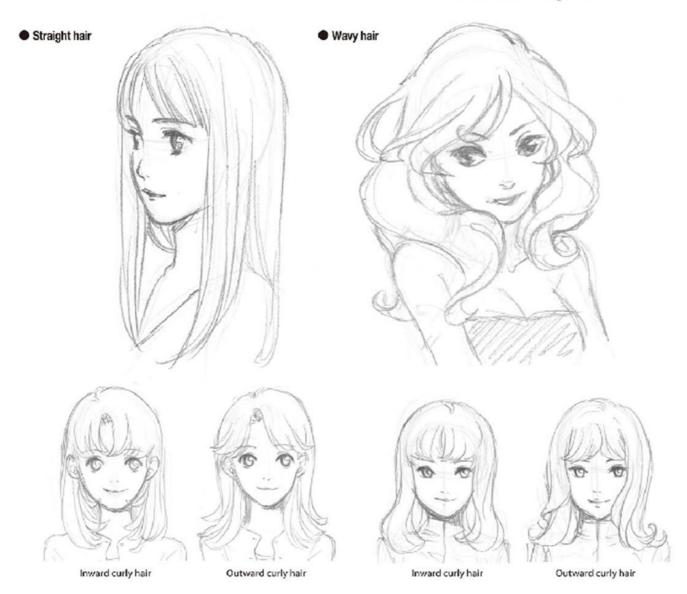
Medium and long hair will cover up This is a hairstyle between short hair and long hair. It is actually short hair

extended to the collar.

3 Hair quality

~ Straight hair and wavy hair ~

Straight hair is drawn with relatively straight curves (instead of circles), and big wavy hair is drawn with circling curves.



Grasp the differences of lines

Straight hair applies C shape lines

Straight hair may have certain curves.

Straight hair will not change curve directions midway. Just imagine the C shape and draw the hair.



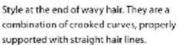
Style of the end of straight hair. Draw the hair simply with curves.

Wavy hair applies S shape lines

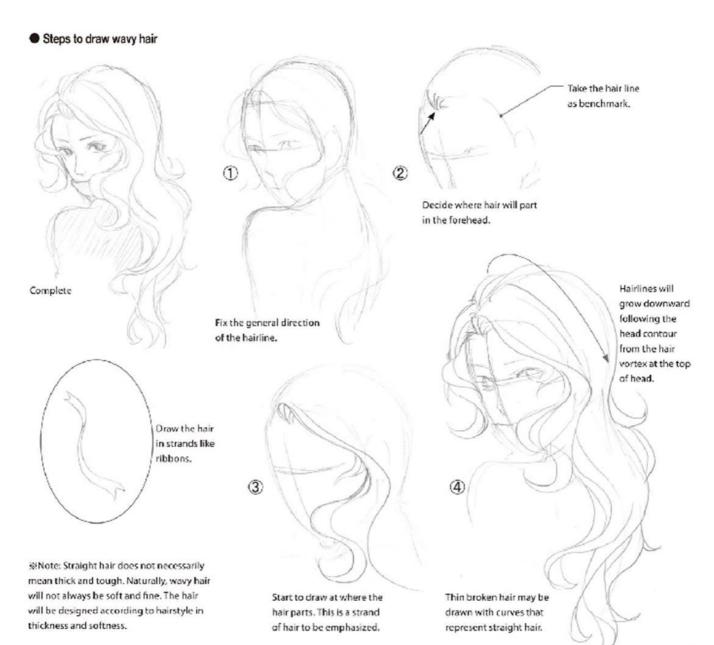
Draw wavy lines exactly as the literal meaning. The curves will change direction midway. Just imagine the S shape and draw the hair.



Join the three curves to generate wavy hairlines.









To manifest hair color, we may spread the color flat or in line with the direction of hairline, taking into account the light source directions.

Black hair



Pencil autline before coloring.





Decide the impression of hair according to designed impression for the figure. Sometimes, hair without luster adapts to settings better.



Draw up luster according to hairline direction.



Revelation of luster (highlight). Display the highlight part in a graphical approach according to head curves.



Revelation of luster. Reveal stereoscopic impression with head curves.

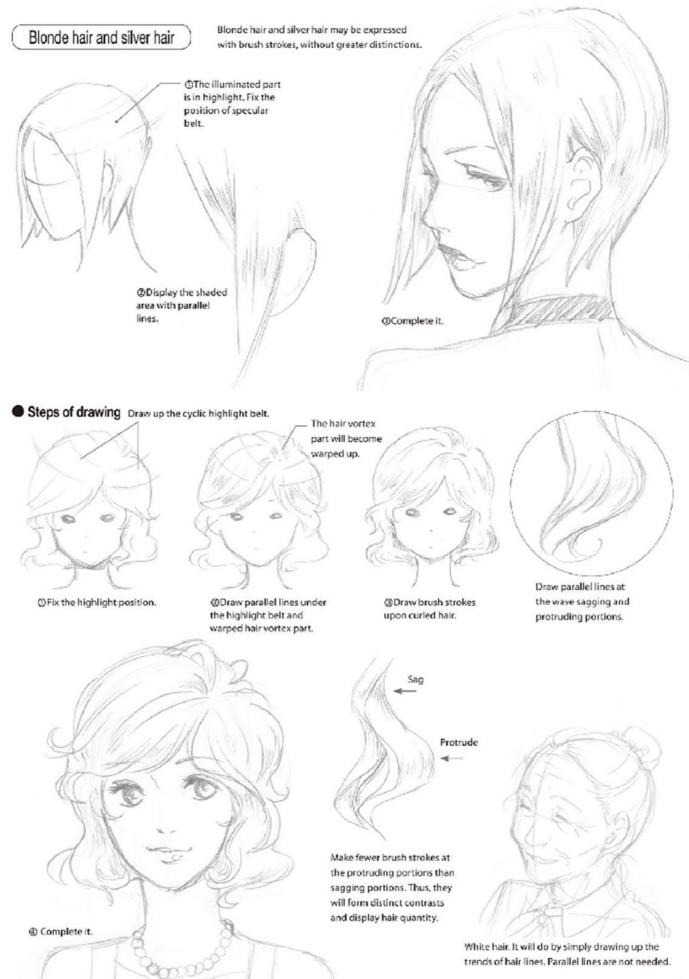
Display luster of hairlines



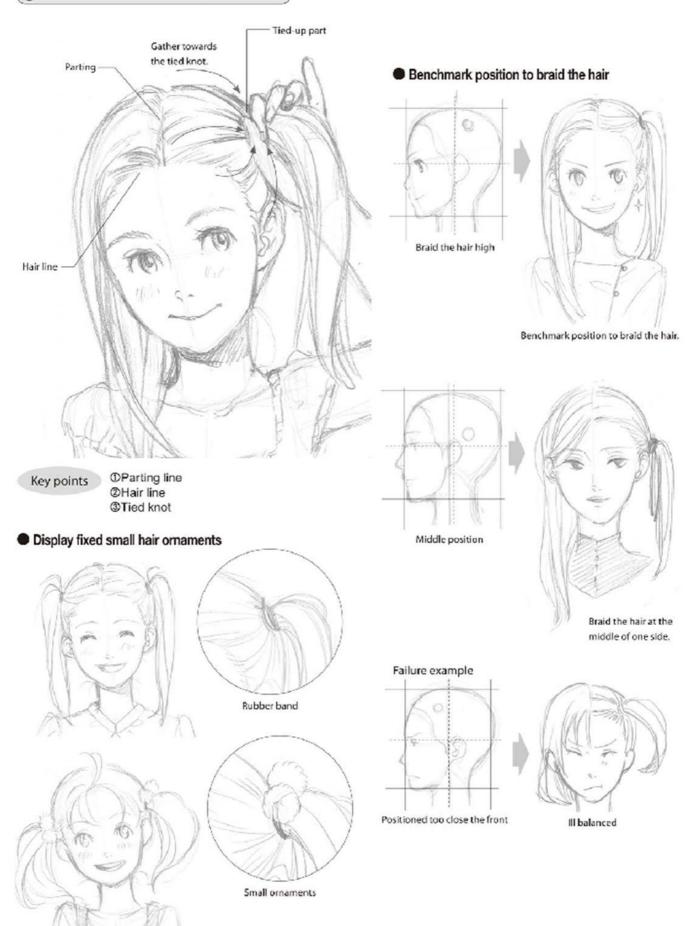


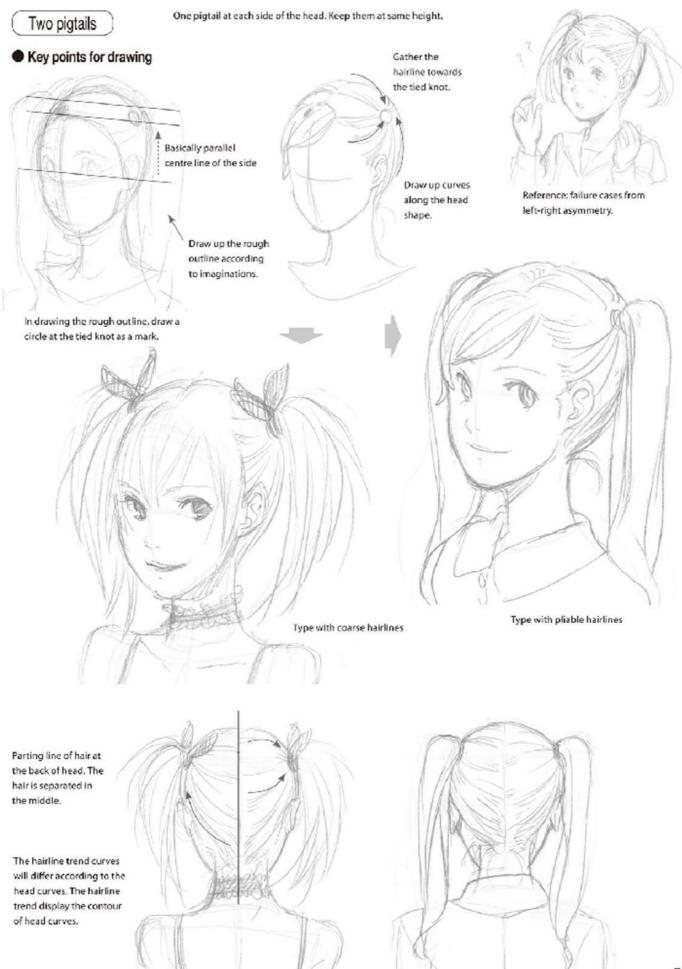




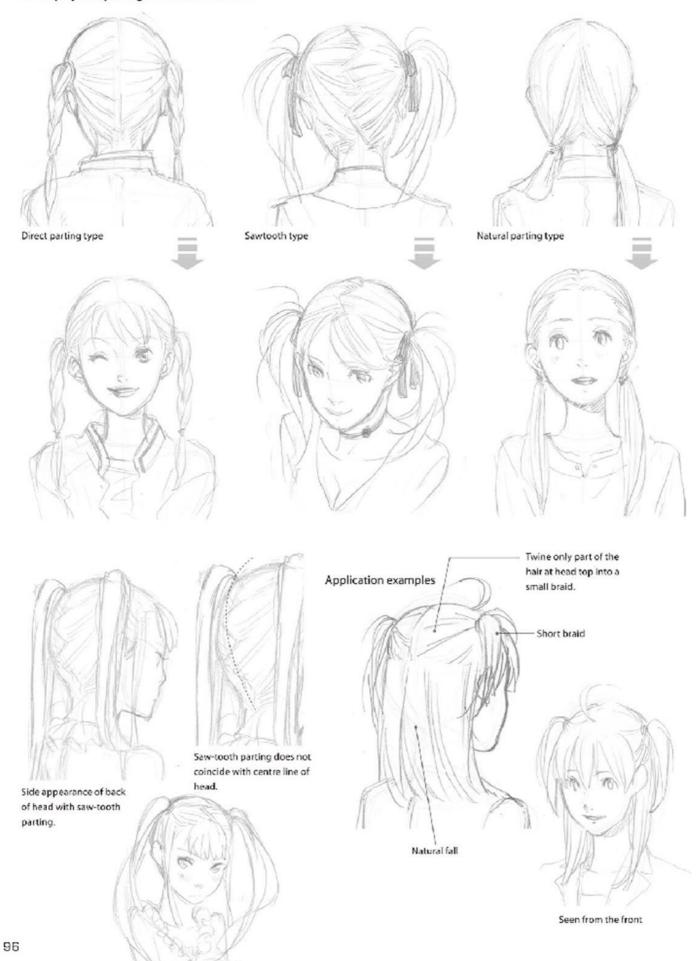


5 Comb and braid the hair





Display hair parting at the back of head

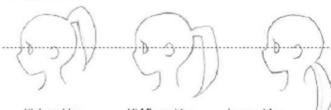




Style of braids at the back side of head.



All positions



High position, creating a lovely impression.

Middle position, leaving a lively impression.

Low position, leaving a calm impression.

Steps to braid ponytail















Three-ply braids

Just as its name implies, ponytail is a braid style looking like pony tails.



Braid the hair into three-ply braids.



Twist the hair.



6 Wear hair ornaments

First, think about where to gather and bind the hairlines. Then, draw up hair trends and add up hair ornaments.

Satin ribbon



First, draw up the ponytail outline. Then, add the satin ribbon for ornament.



It is unnecessary to display the hairline trends of Q-version figures. Just draw up the satin ribbon.



Draw up only the outline of satin ribbons.

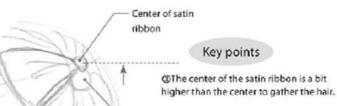
Steps to draw up ponytail with satin ribbon



OFix the position to gather the hairline.



@Draw up hairline trends along the head curves.



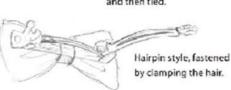


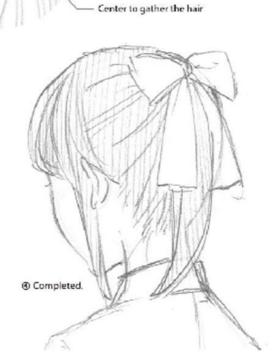


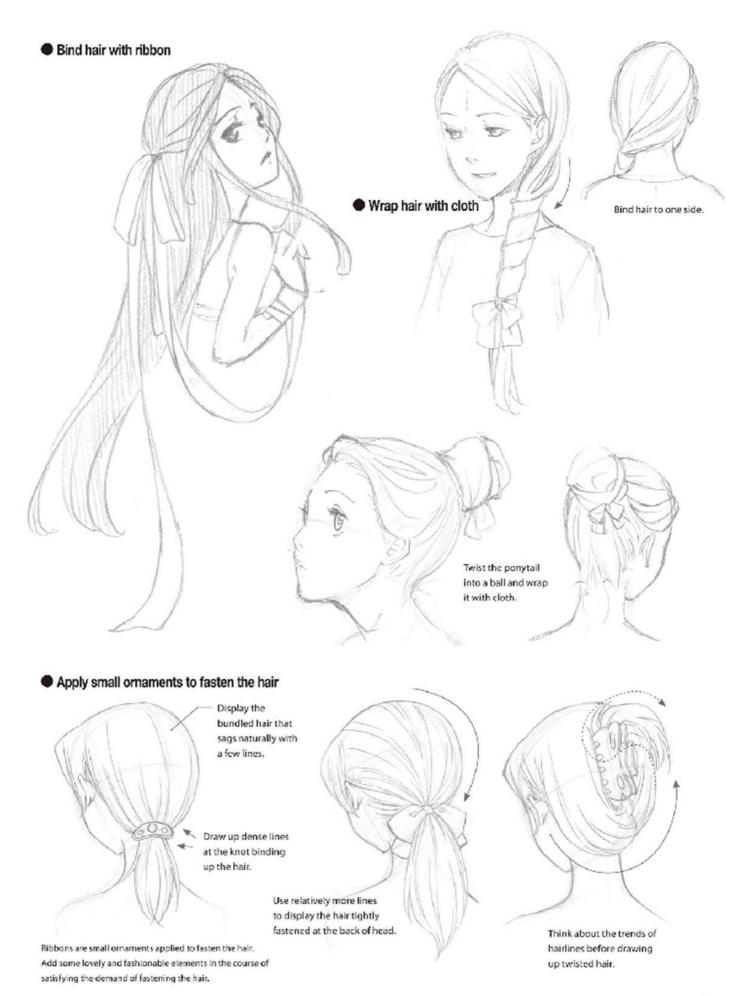
Some satin ribbons are made in advance and clamped with hooks.



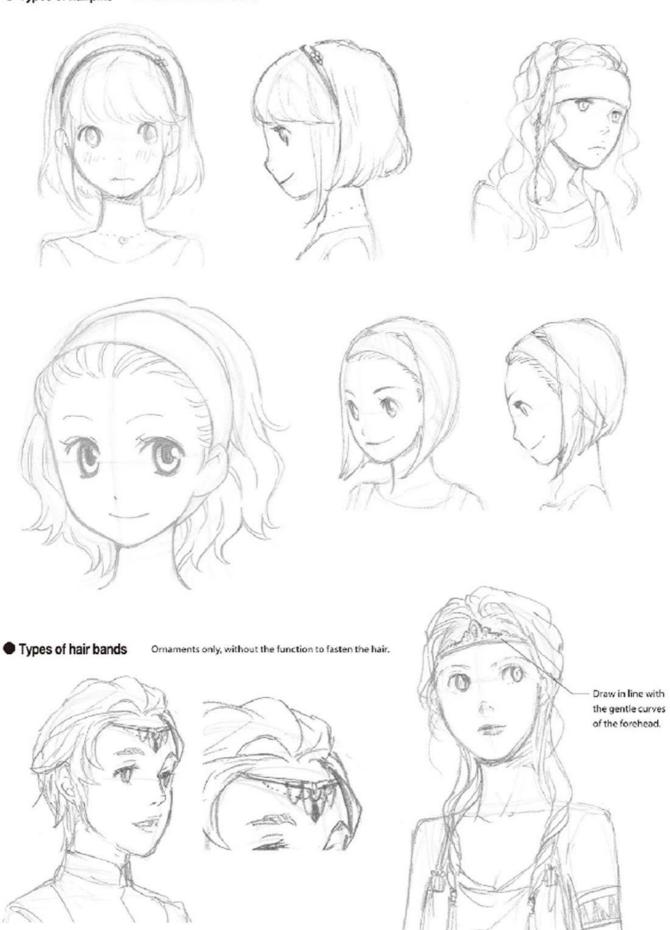
Satin ribbon knotted and then tied.







● Types of hairpins Draw in line with head curves.



Wrap up and cover the head



Big handkerchief Impression, and tie a knot at the back side of head.

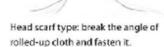
Fold a handkerchief into strip, wrap up the head, and tie a knot at the chin.





Wrap up the head with a triangular scarf, and tie a knot under the nose.







Pattern tightened in the front.



Pattern folded and wrapped at one side.



Pattern resembling triangular scarf to wrap up the back side of head with a long cloth.



 Nun type
 Wrap the head with cloth and expose only the face.

Ninja type

Wrap the head with cloth and expose only the eyes.

7 Symmetry and asymmetry

In designing figures, painters may be inclined to draw figures only of one type, because of personal preference and habits. If they want to draw up figures with a completely new outlook, they may approach them from symmetry and asymmetry angles.

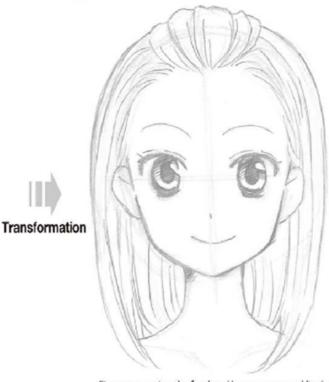
Left-right symmetry

There are four prototypes of left-right symmetry

Type 1: With hair shade in the front



Type 2: With hair combed in the front



Big transformation

The forehead is shaded to leave a gentle quiet impression. The hair shade may be drawn to cover up eyebrows. In this manner, it is hard to observe the figure's expression. Therefore, this technique is suitable to display mysterious figures.

Figures exposing the forehead leave a open and lively impression. This technique may be applied to display the type opposite to those with shaded forehead.

Type 3: Central parting



The intermediate type between type 1 and type 2. Figures in this type are not attractive as those of type 2 with fully exposed forehead. But they also leave a lively impression.

Type 4: M-shape hair shade

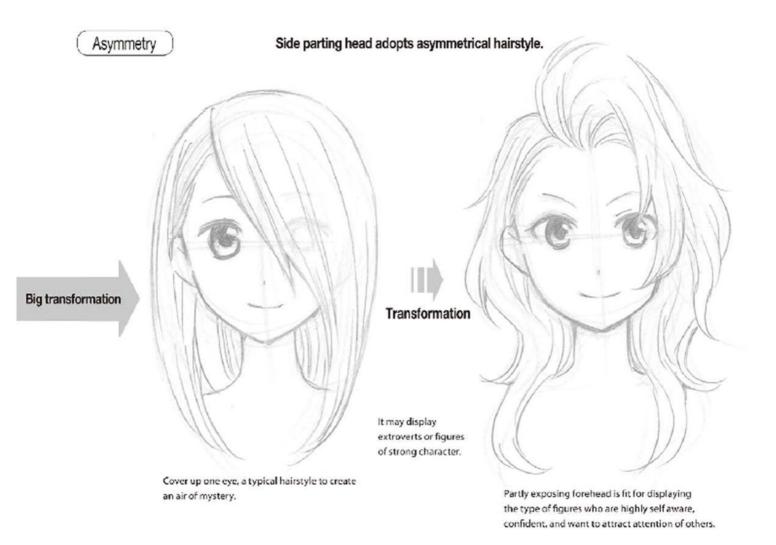


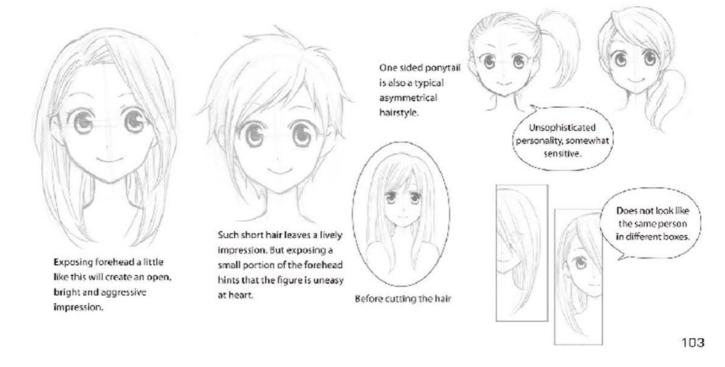
Opposite to type 3, the figures expose the forehead faintly, leaving an impression beyond understanding and judgment. This technique may be applied to display mysterious figures with distinctive personalities.





These hairstyles apply to big wavy hair.





Design figures with symmetrical hairstyle

Type with hair shade



⊕Front design drawing for the figure.



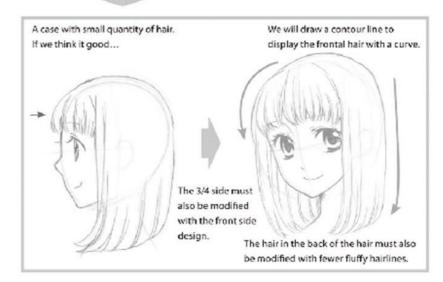
Key points

The figure design is to ensure the same face is drawn from every angle. It will leave a different impression when the hair quantity is different, even if the facial features remain the same. It is important to draw well the 3/4 side and front side of the figure.

Straight and long hair



The figure will look lovely, if the hair is fluffy in the front. If we handle it this way, we will modify it correspondingly in other angles.



Reference: Key points designed to draw up the type with central parting line



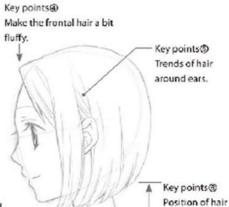
entral To

Tront side design drawing

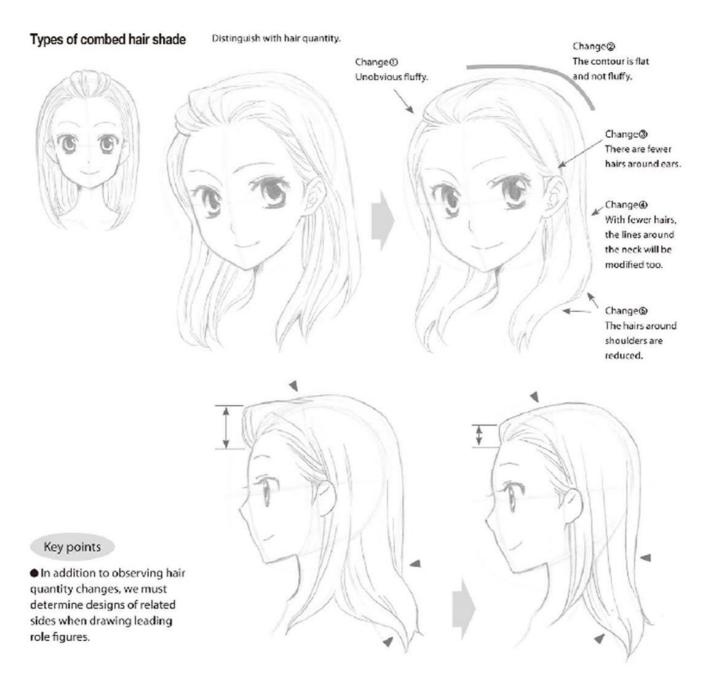
Key points() Display the forehead height at the central parting line.

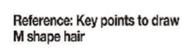
Key points© Establish the range of parted fringe.

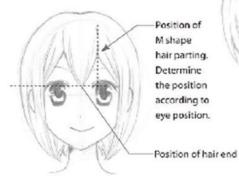
Key points@ Establish the length and curve of temple hair.



at back of head.

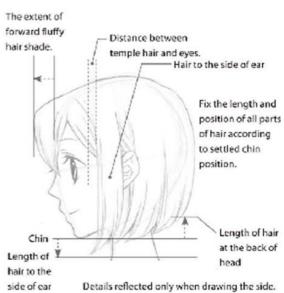








In drawing the 3/4 side, we will make the figure look more handsome if keeping the hair a bit longer at the center. In this way, draw up faces at different angles to determine the figure design.



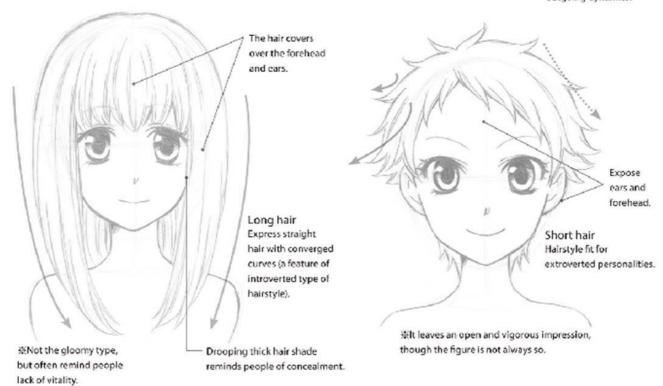
Issues to consider when defining hairstyles

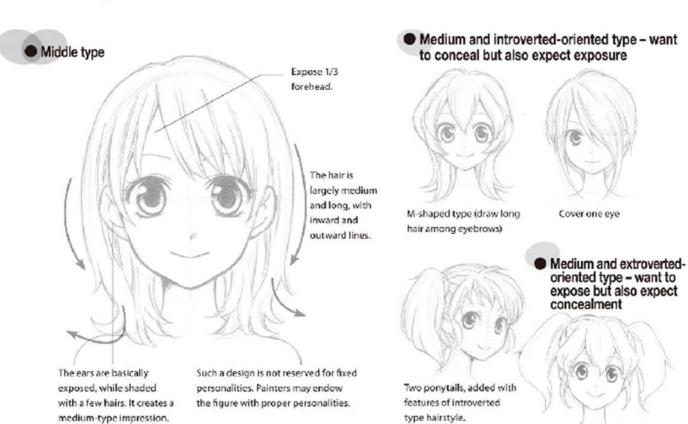
Design hairstyles according to figure personalities

 Introverted type figures, looking quiet and virtuous Cultivate the image with covering, hiding and indistinct modes. The appearances must be able to reflect the personalities of figures. Design hairstyles according to their first impressions to people (common understanding) to make the figures more easily recognized.

 Extroverted type figures, looking healthy and passionate

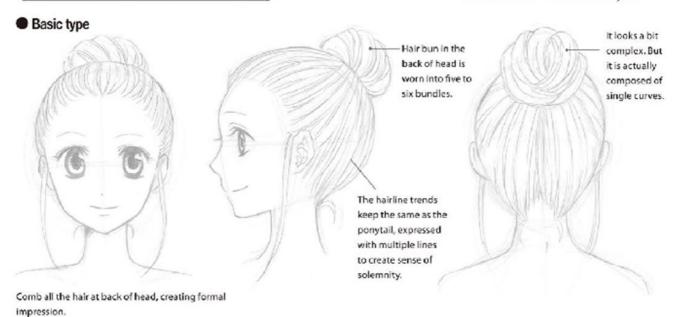
Cultivate the image with exposure, revelation and outgoing dynamics.

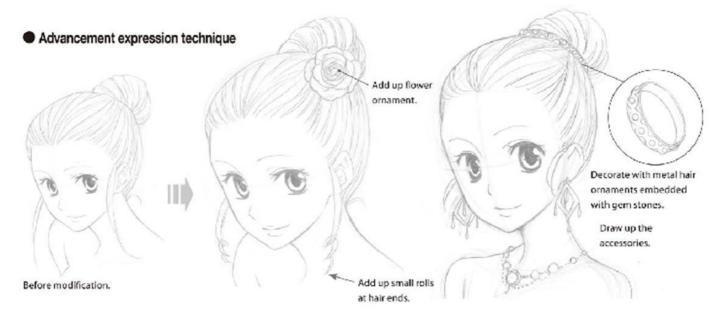


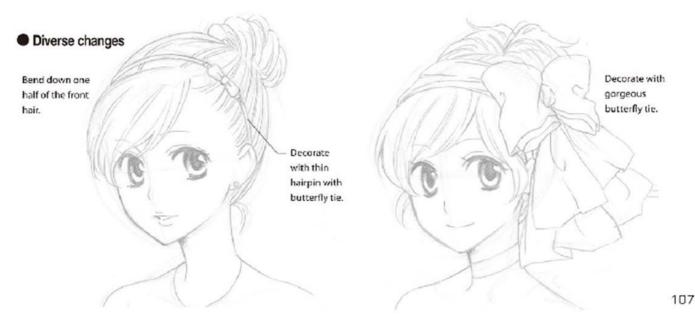


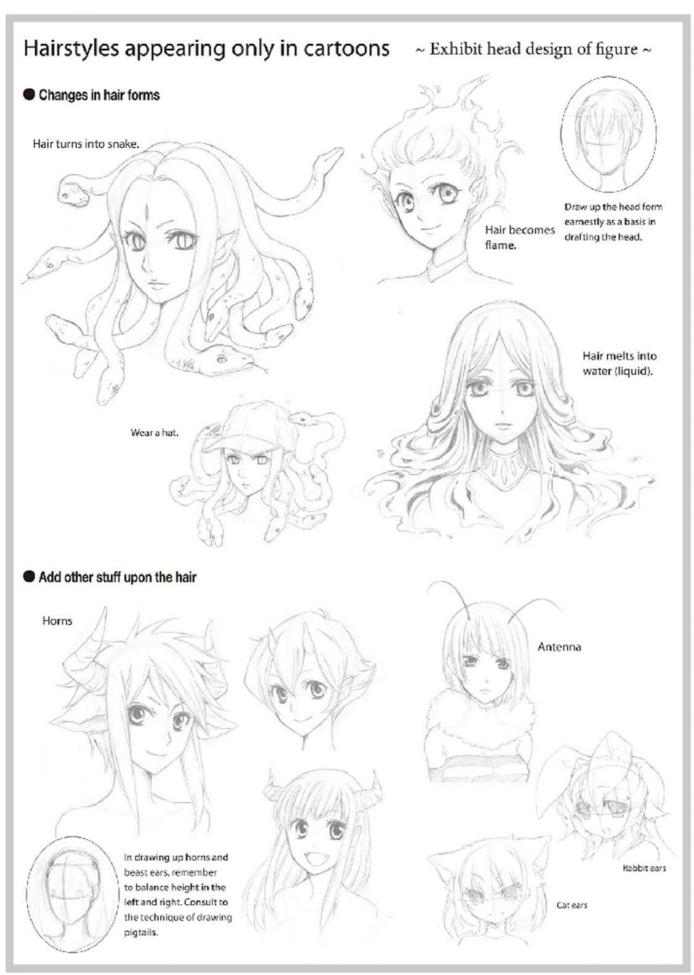
Hairstyles matched with formal dresses

Different from everyday basics, formal dresses must be matched with formal hairstyles.







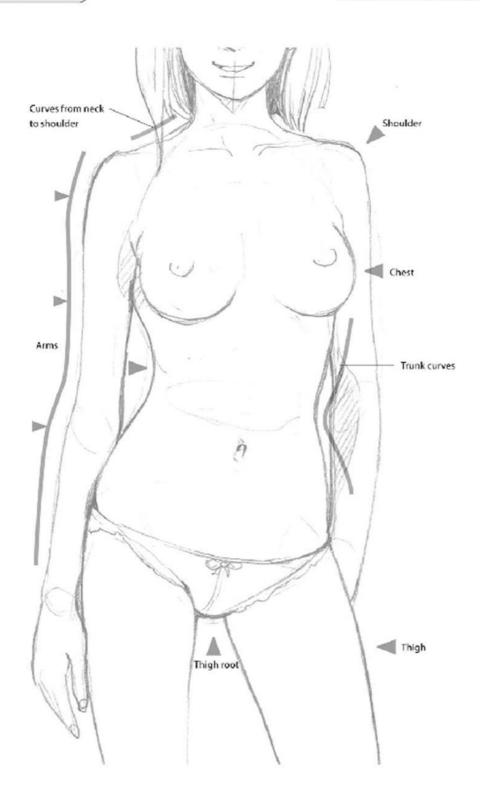


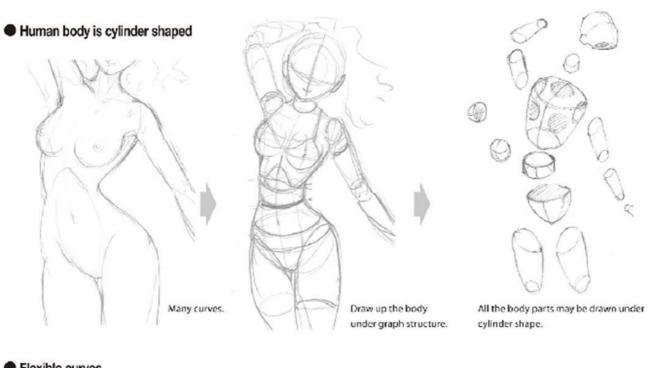
Chapter Three Drawing Body

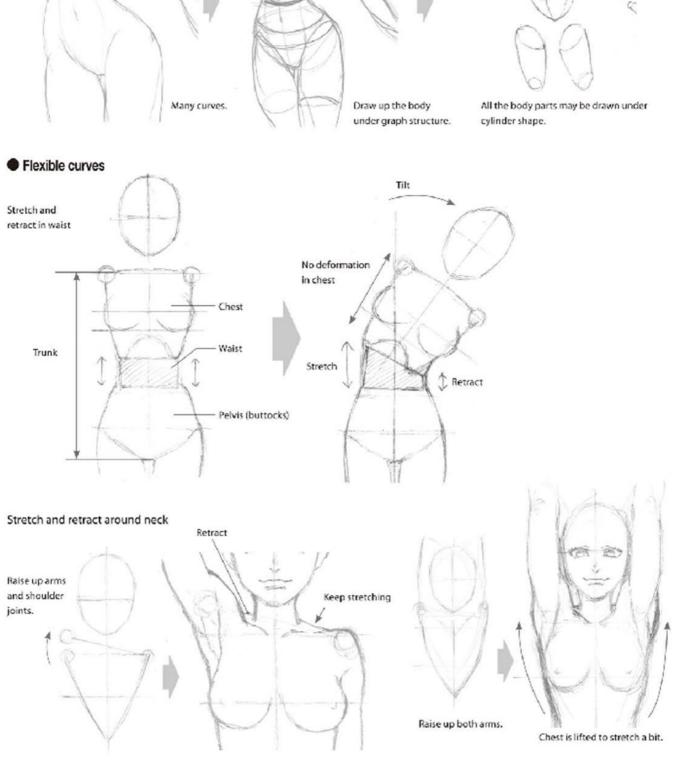
Exhibit female body charms with twists and curves.

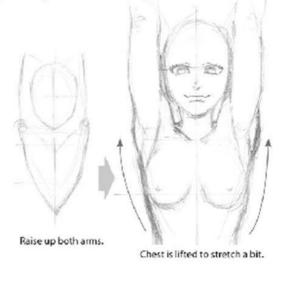
Draw up curves

Human body is constituted of curves. So, contours are all curved lines.



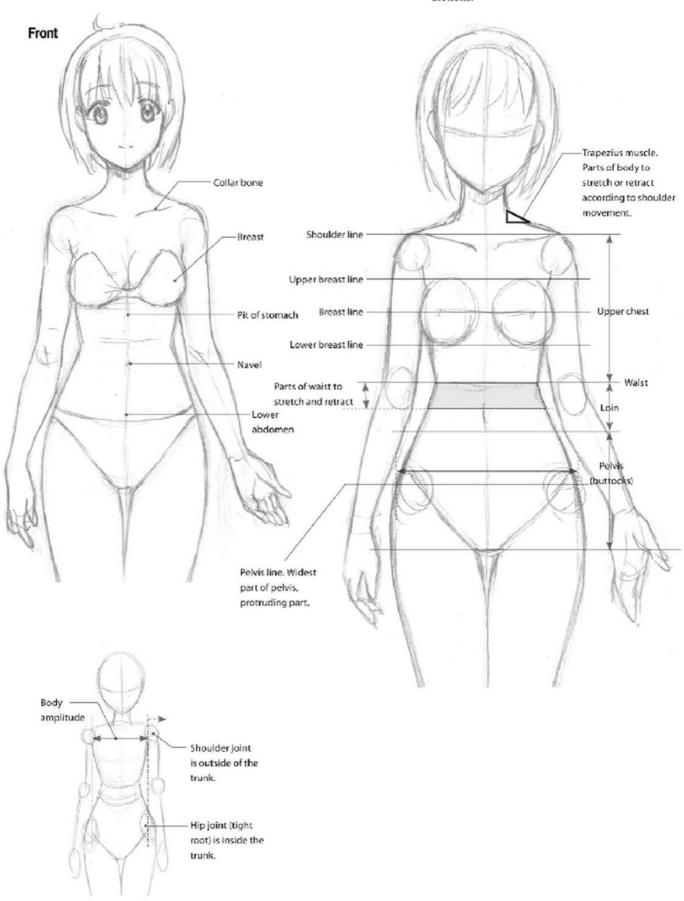


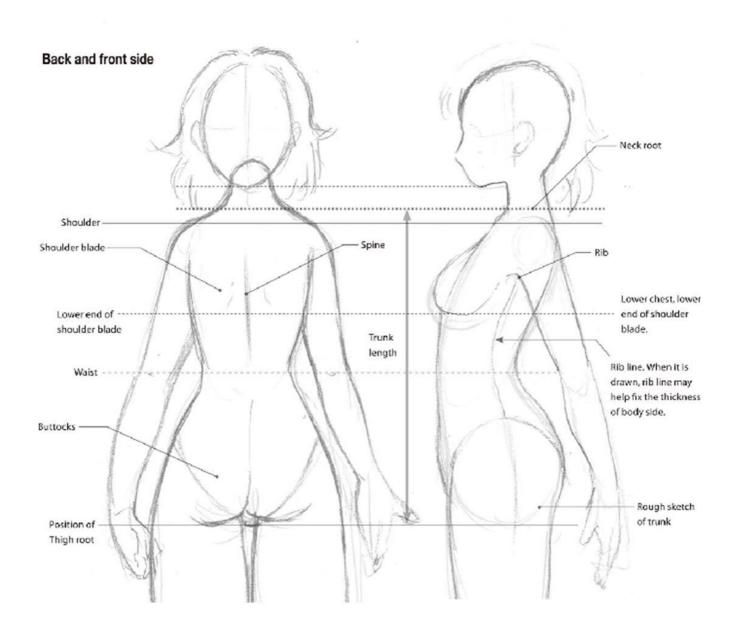


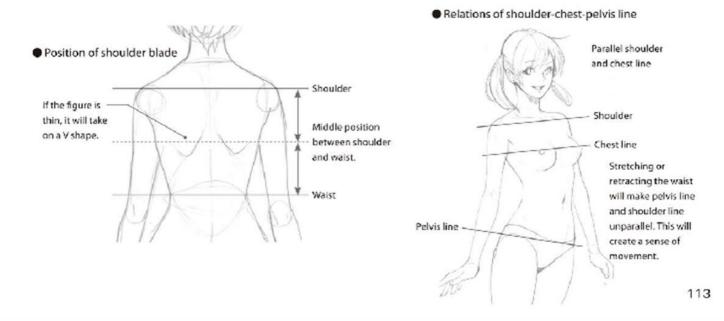


Body structure and part names

To draw up the body well, it is essential to grasp the forms of body parts, and related names and dictions.





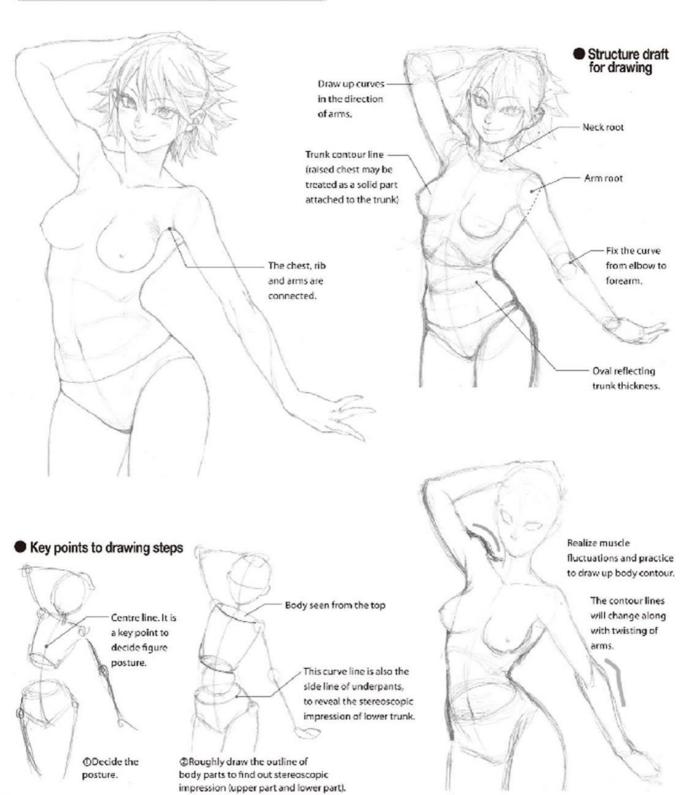


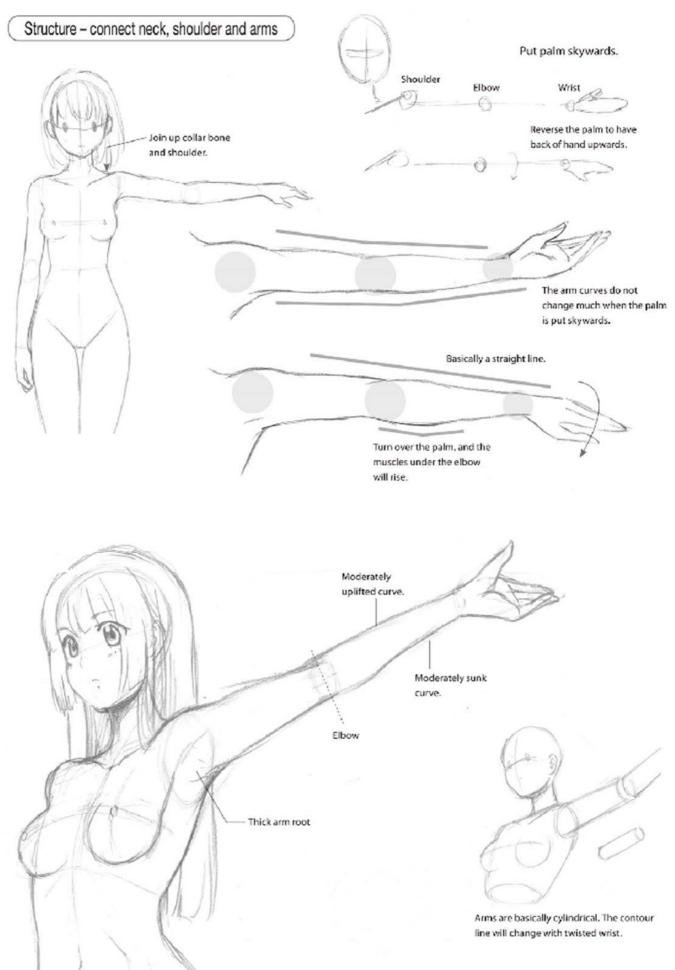
Make the upper body and arms more charming

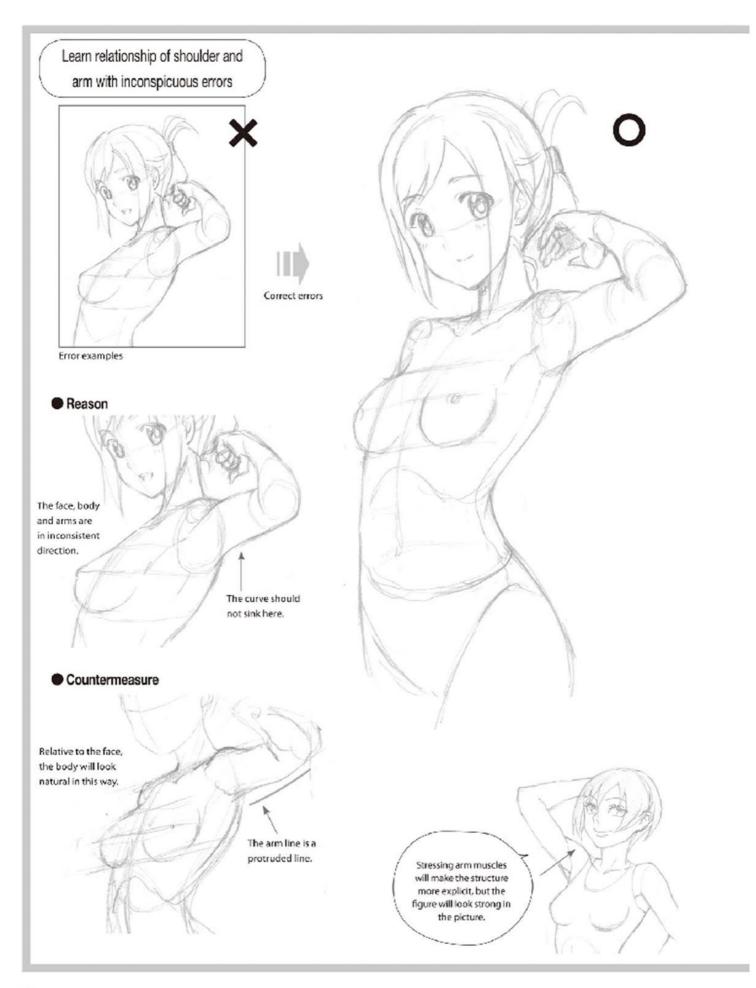
Human body (trunk), arms and hands are basically cylinder shaped. Joints connect these cylinders. They are expressed with circles.

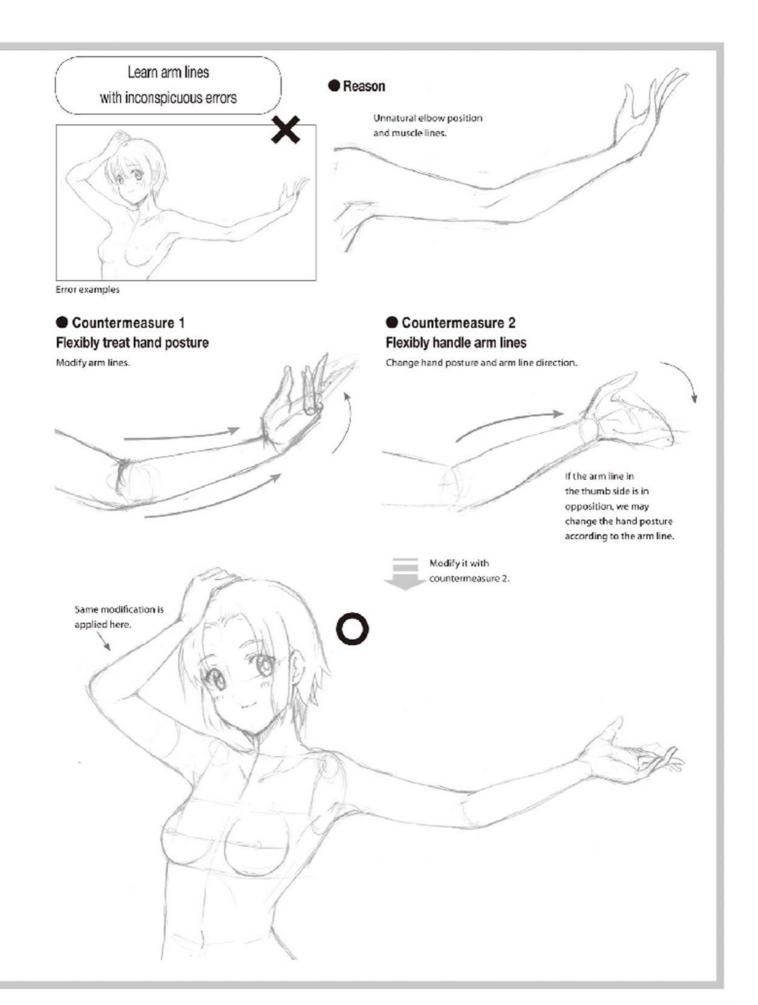
Upper body drawing technique

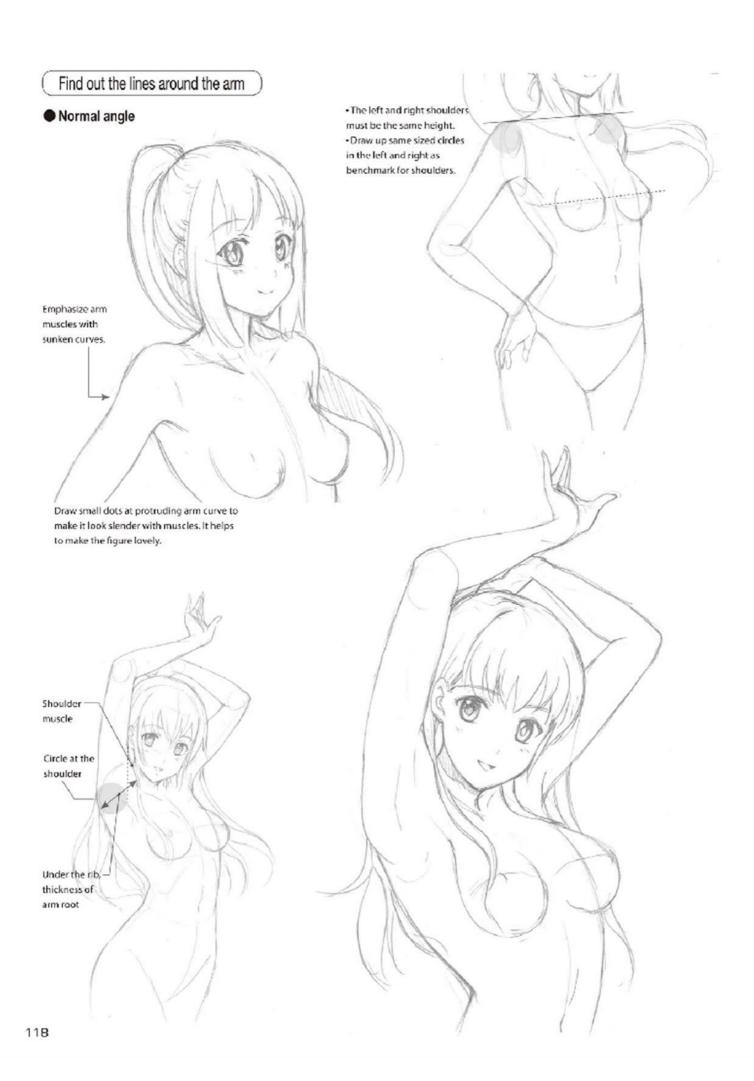
Draw up thickness of trunk. The neck, arms and legs and extension of trunk thickness.

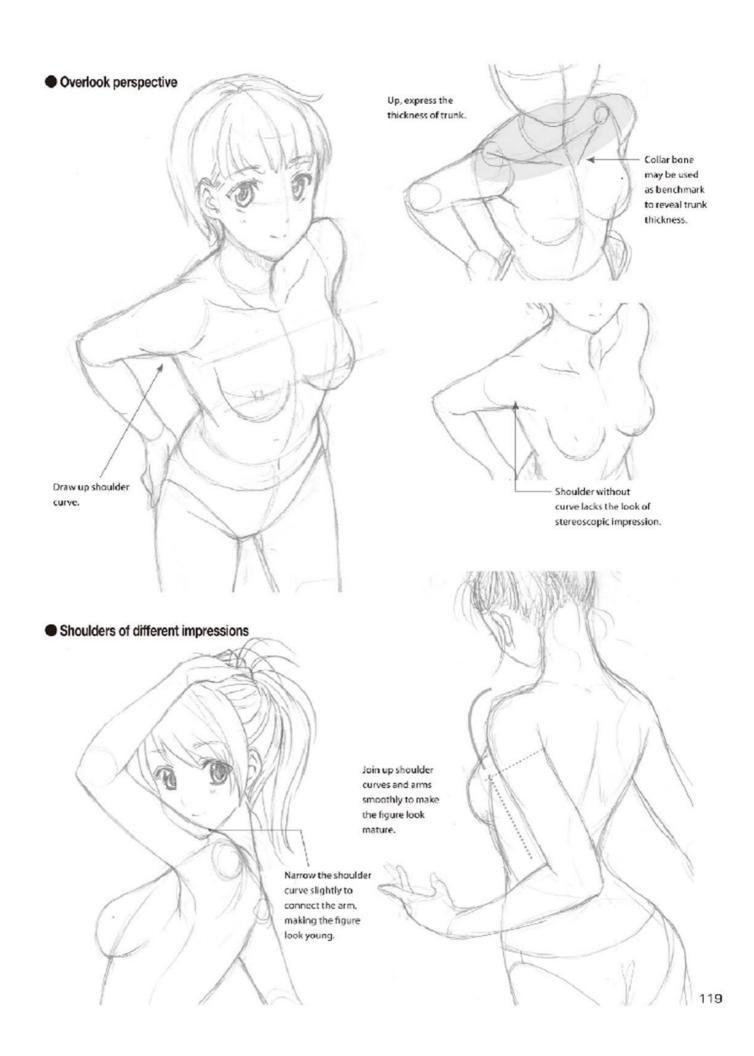










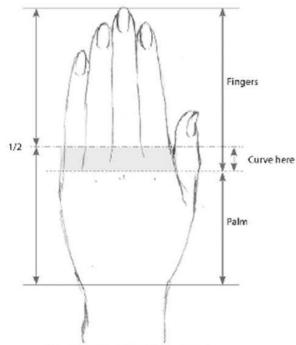


Technique to draw hand

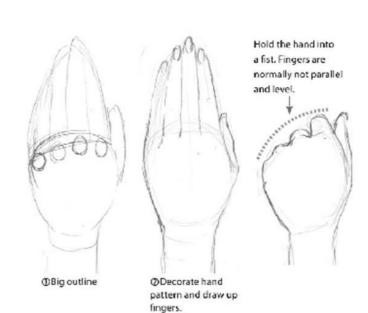
Structure and proportion

Proportion of back of hand

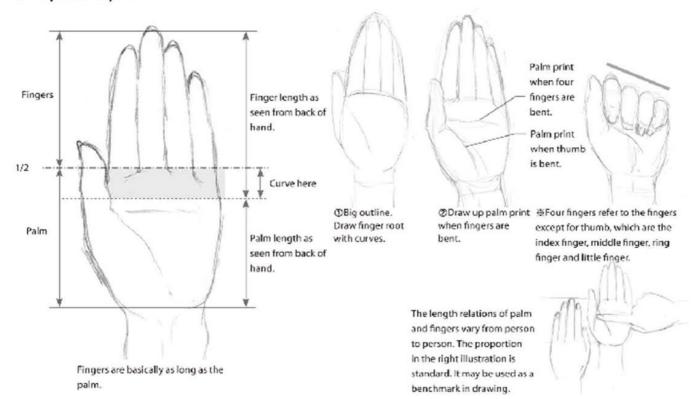
The knuckles on the back of hand take circles as benchmark. The finger roots of palm are shown with palm prints.

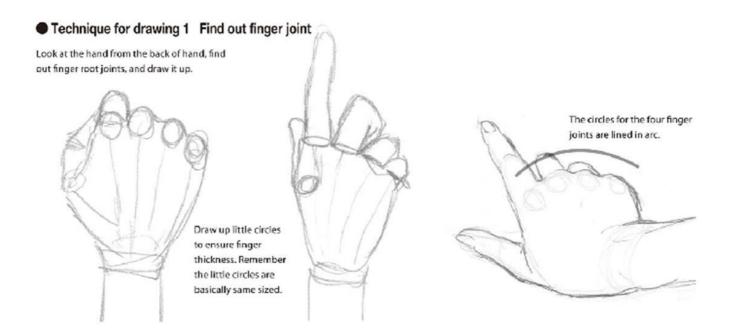


Fingers draw together. The finger root joints may also be drawn as fingers.



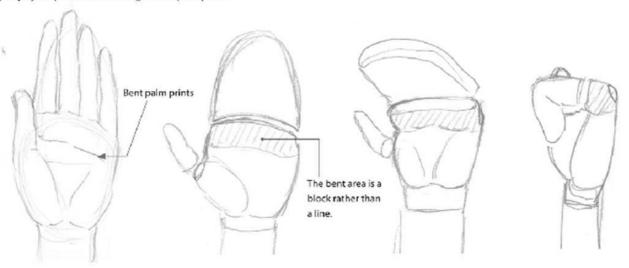
Proportion of palm

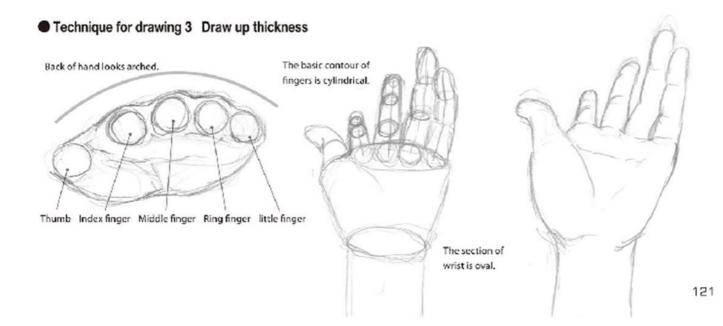




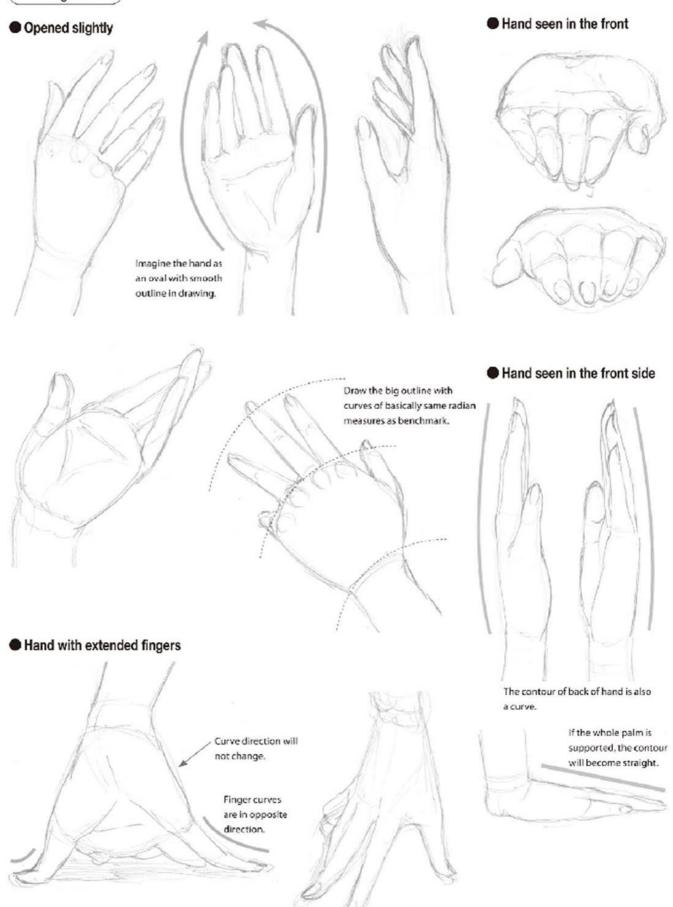
Technique for drawing 2 Find out the blocks

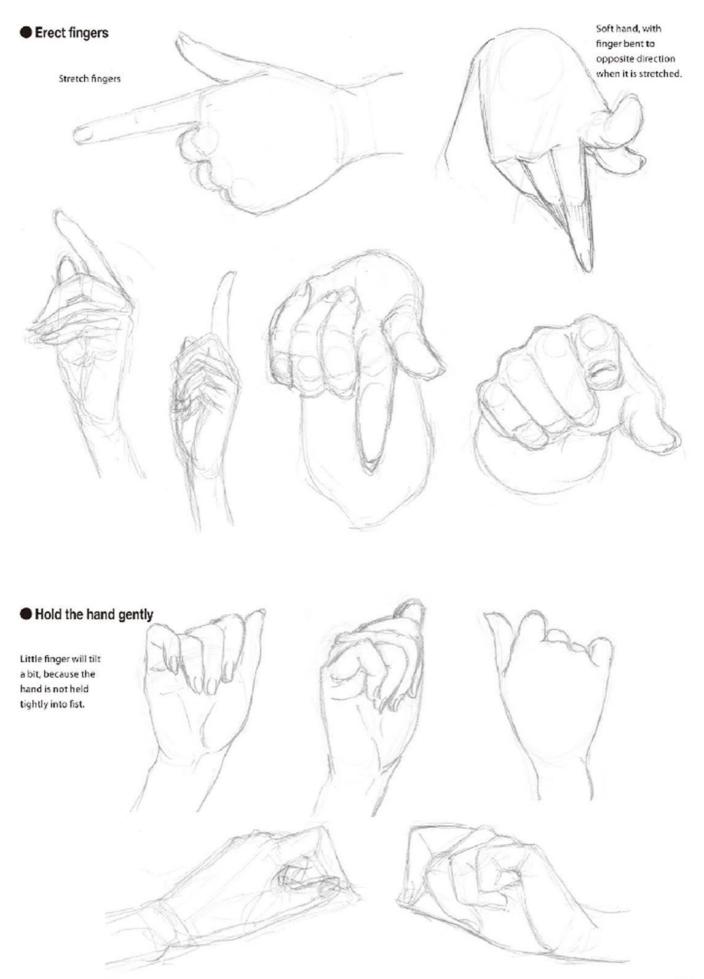
We cannot see finger root joints from the palm side. We may display the position of bent fingers with palm prints.











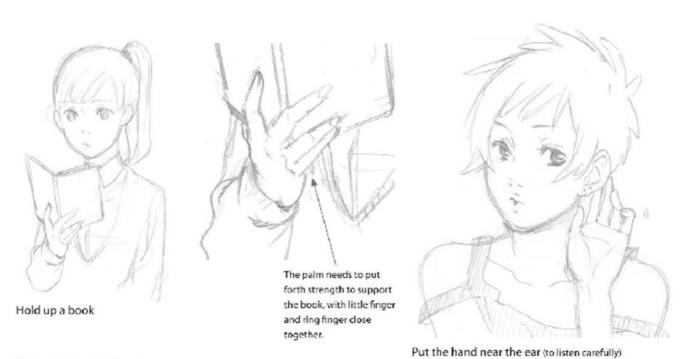


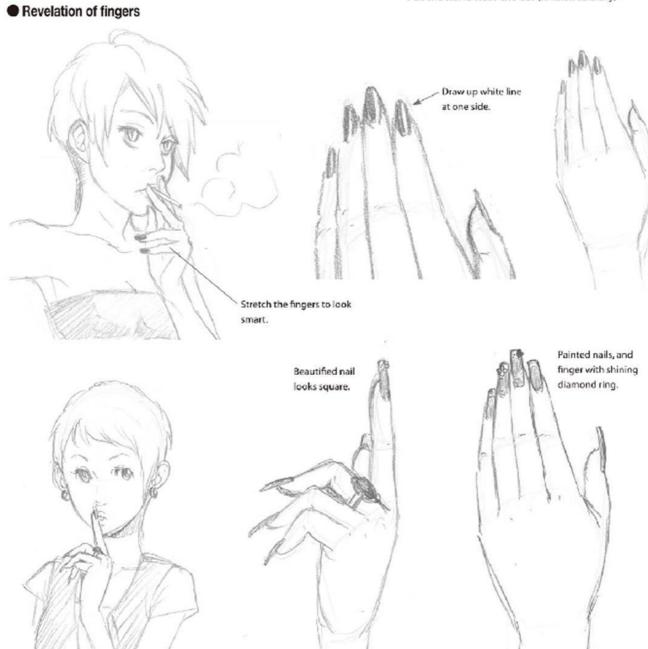
Draw up outline for the hand hidden beneath, so

as to more easily fix the size of the hands.

Clench one hand into fist

to display uneasy feeling.





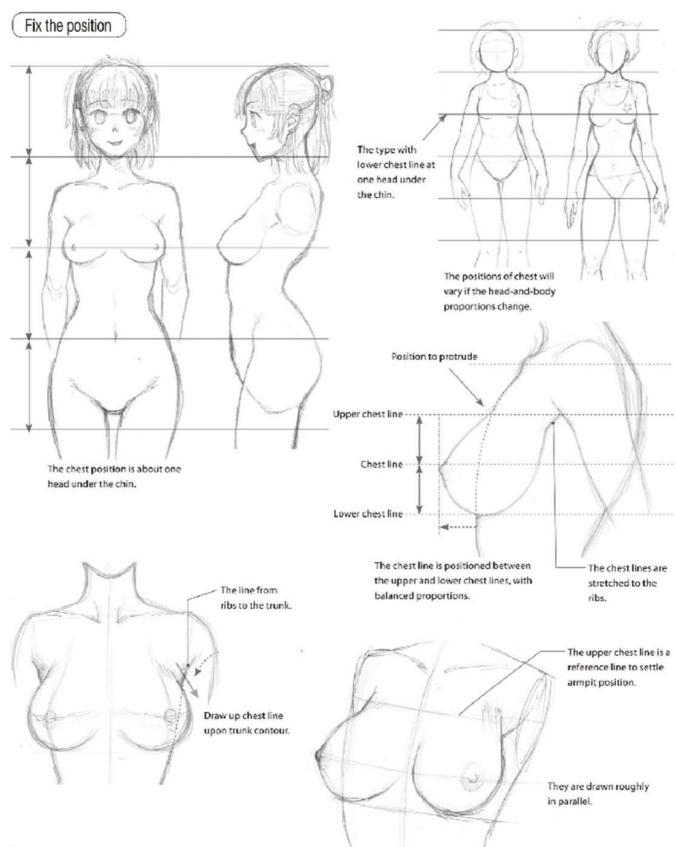




Draw up sexy chest

Chest structure and features

Chest lines and chest position. They vary according to head and body and size changes.



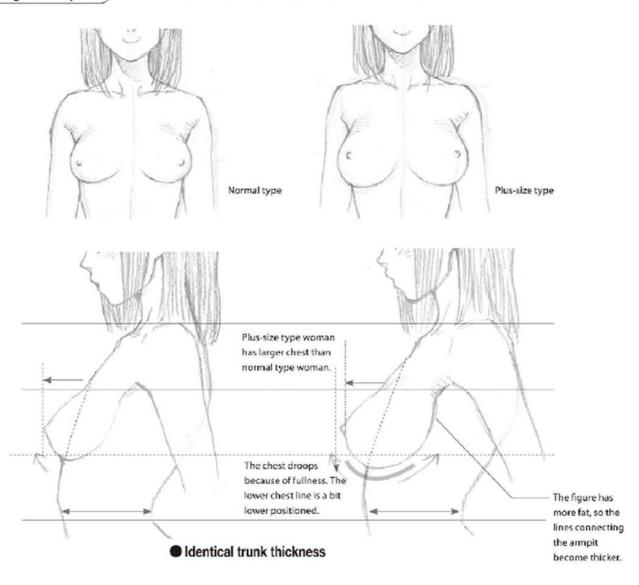
The chest (breasts) expands to the left and right Draw up the chest from the centre line of the body. Front Expand outward Draw in the low angle view. The chest will expand outward. The centre Nipples line of chest will tilt somewhat from the Draw up the centre centre line of the line according to the body. protruding parts of Centre line of chest. Nipples are positioned at the cross the chest. points of lateral and longitudinal lines. Nipples Centre line of the body Draw in the vertically upper angle. High angle view It is the same under the overlooking angle. The chest will expand outward from the centre line of body. Low angle view Centre line of the body If the nipples are not equally high, the sizes of left and right parts of the chest will look different. Use

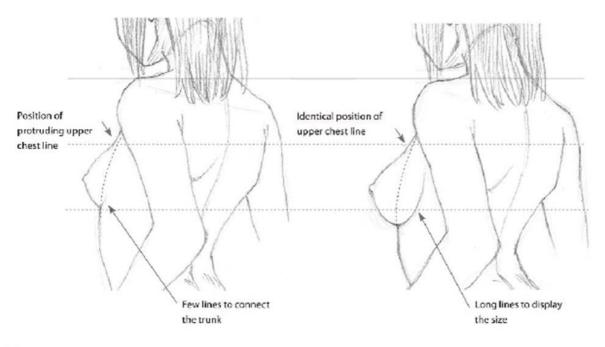
the chest line and lower chest line as references in drawing.

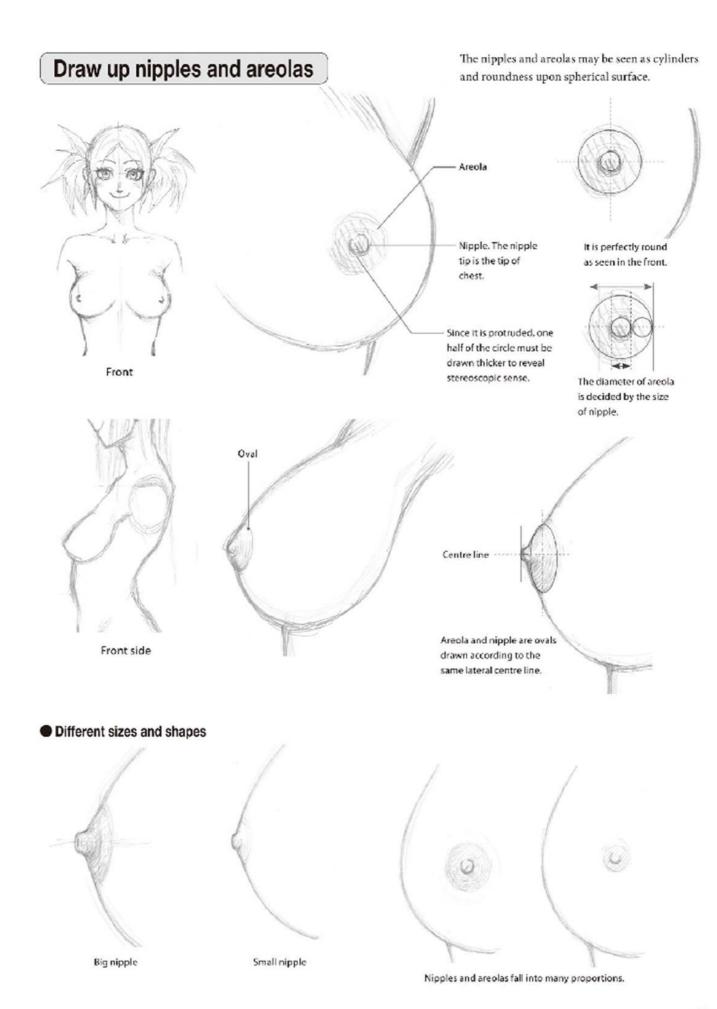
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Changes in shapes

Different lines are applied in drawing according to the sizes of chest.







Chest under various shapes

The chest may display various shapes according to the applied curves.

● 3/4 side



Small chest, with barely a curve for lower chest line.



Medium sized





Plus-size type



Plus-size type



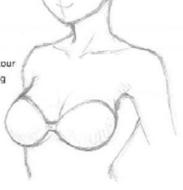
With underwear



Triangular contour

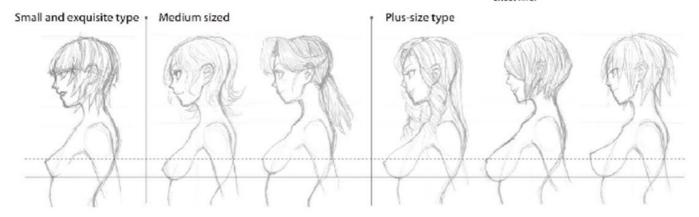


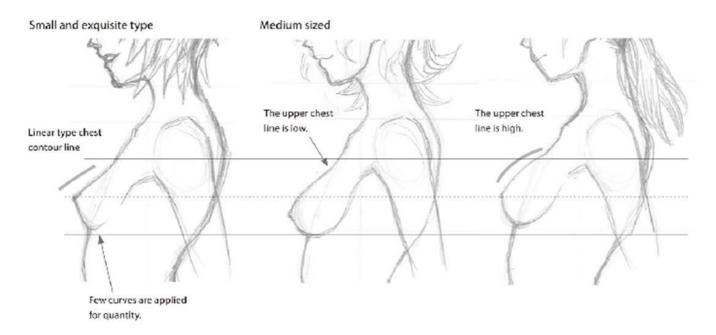
Round contour approaching natural condition

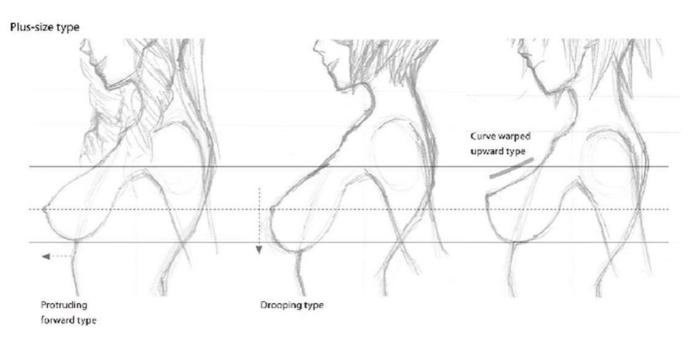




Compare positions for chest tip and lower chest line.





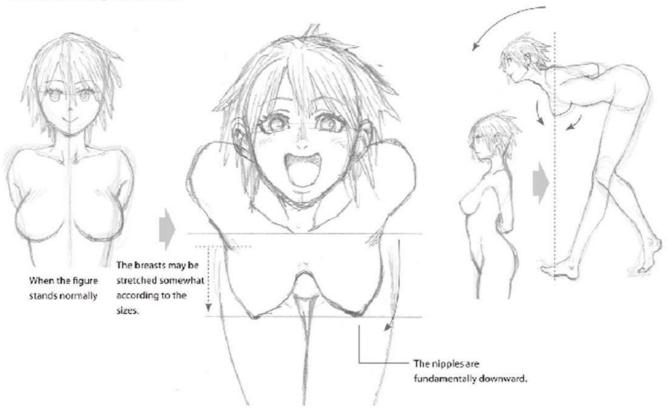


Chest movement

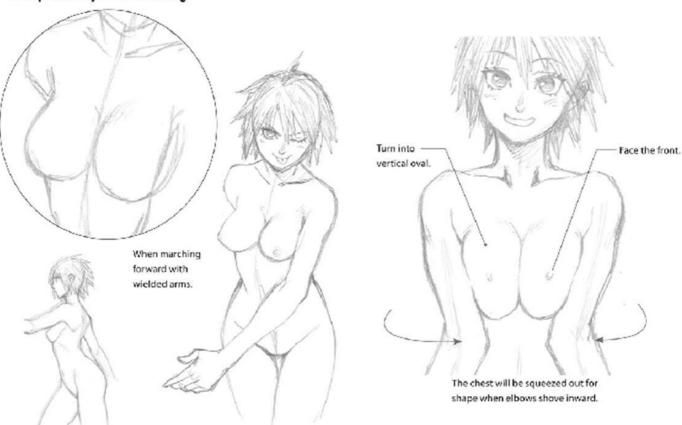
~ Shape changes from movement ~

The chest is made of soft fat. It will change in shape because of weight and force of inertia.

When the body tilts forward



Squeezed by arms in walking





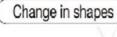
How to draw the chest more beautiful

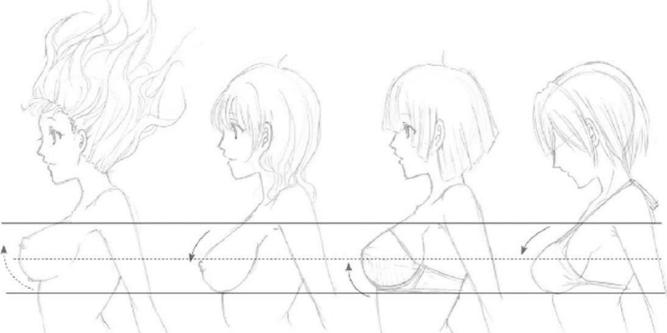
It is a frequently applied technique in the fashion circle to highlight the chest line and offset female charms. This method may also be flexibly used in drawing.





undecorated state.



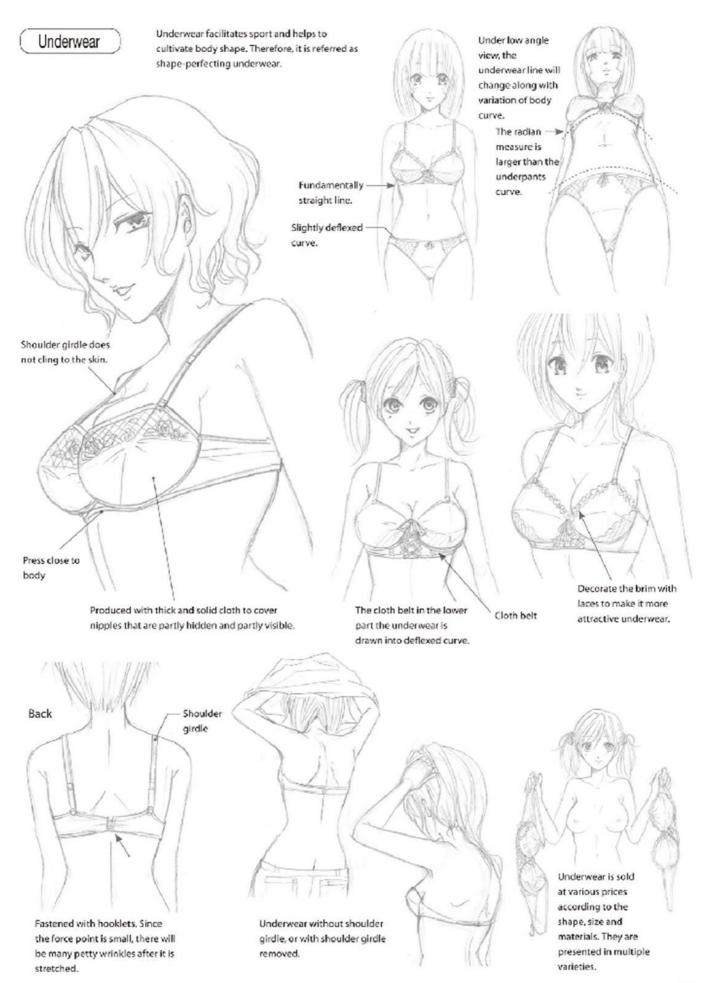


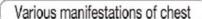
The chest looks like it's floating and ignoring gravitation.

The chest droops a bit under gravitation, with dimension size.

The chest shape is adjusted with underwear, as it supports the chest.

The chest looks lovely in swimsuit. There are many swimsuits to maintain natural state of chest.





Manifestations with underwear



Normal manifestation

Most fundamental shape (sports underwear),
with body-perfecting and protection
performances to make the figure lovely.



Manifestation to reveal sensual appeal Bind it up forcefully, and the chest will change in shape.



Manifestation of changing the shape Fill in stuffing to change the chest shape.

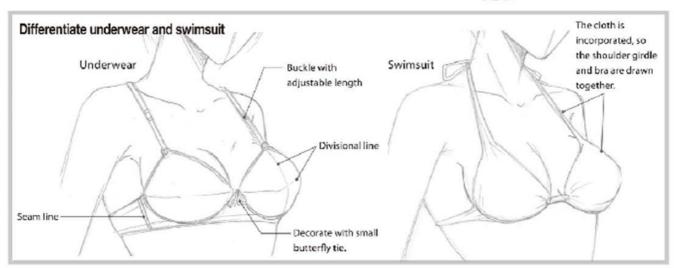




Display the body with tight skirt.



Display chest with shape wear.



Manifestation with wrinkles







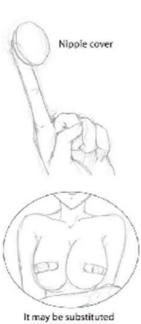
Bring forth the plump and soft chest with curves.



Embody the protruding nipples with crest line and contour of underwear.

Effects of special props





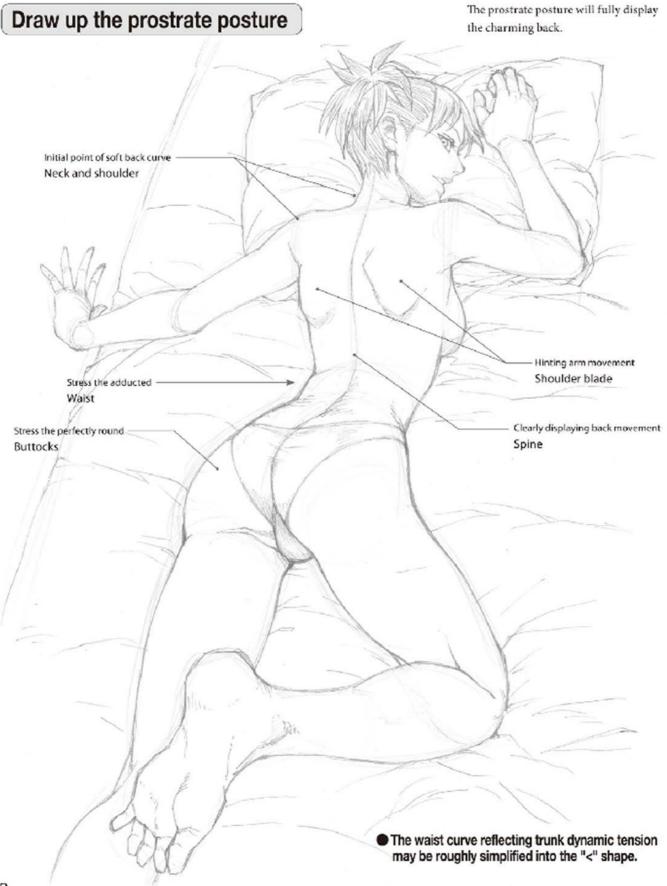
with band-aid.



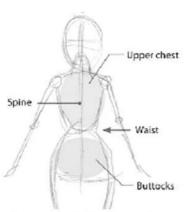
Elegant and natural chest line may be made without underwear (collar opened to such a height will normally expose underwear).

Draw up enchanting back

The "<"shape back is the key in expression.



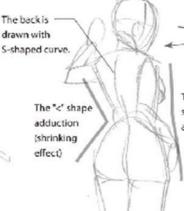
Key points to draw up the back



D Big outline. Find out the spine line and fix the position of waist according to head-and-body proportion.



② Draw up body thickness with oval and curves.



In drawing the 3/4 side, we stress adduction of waist line at one side.

The other side of the "<" shape is basically not adducted (stretching effect).

[Shrinking effect] Highlight the < shape in the waist to bring in the tension of movements.

Contour of

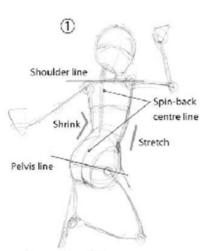
The big outline

curve of shoulder blade is joined with

the lower chest line.

shoulder blade.

Steps to draw the prostrate posture



Draw up big outline The shoulder line and pelvis line are not parallel, so the waist will experience considerable stretching and shrinking.

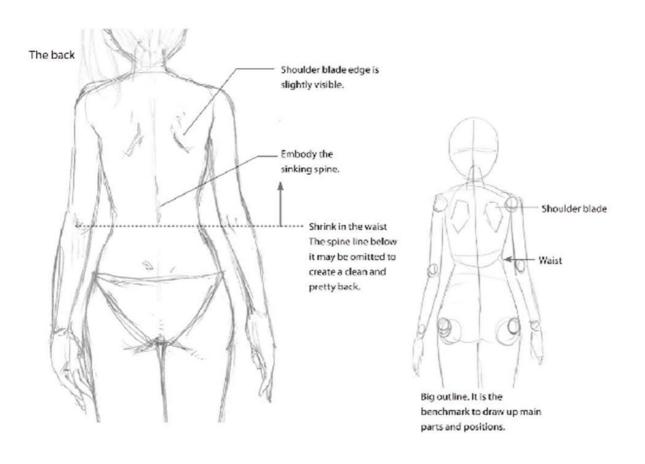


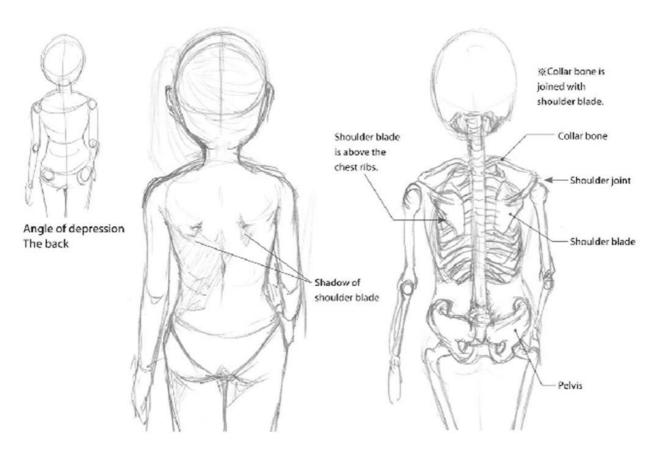


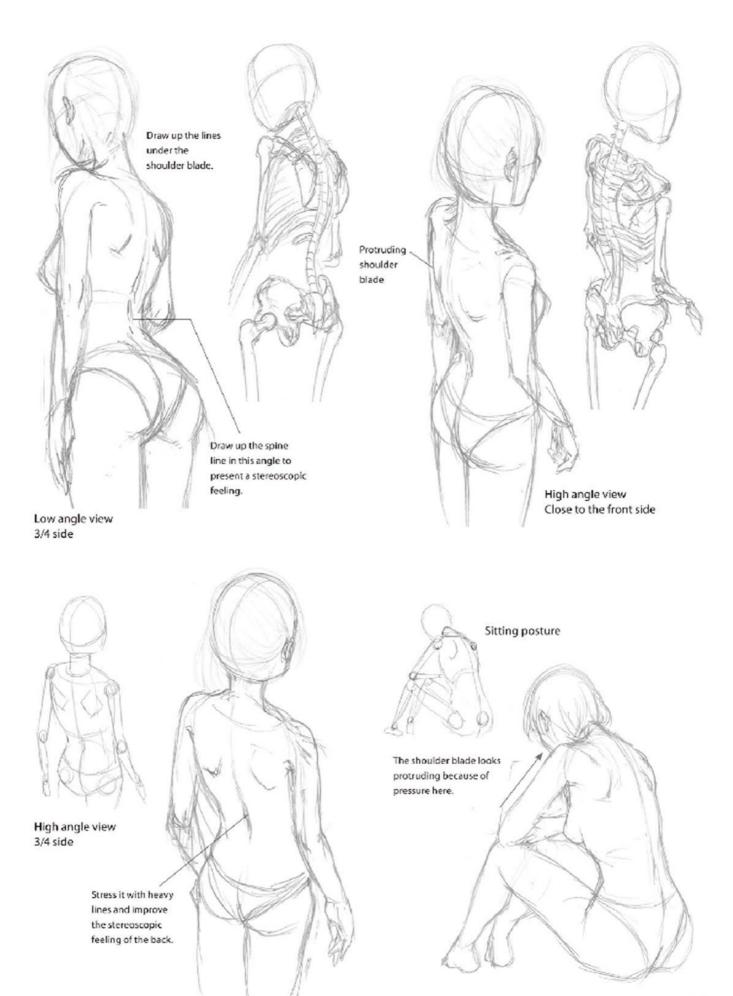


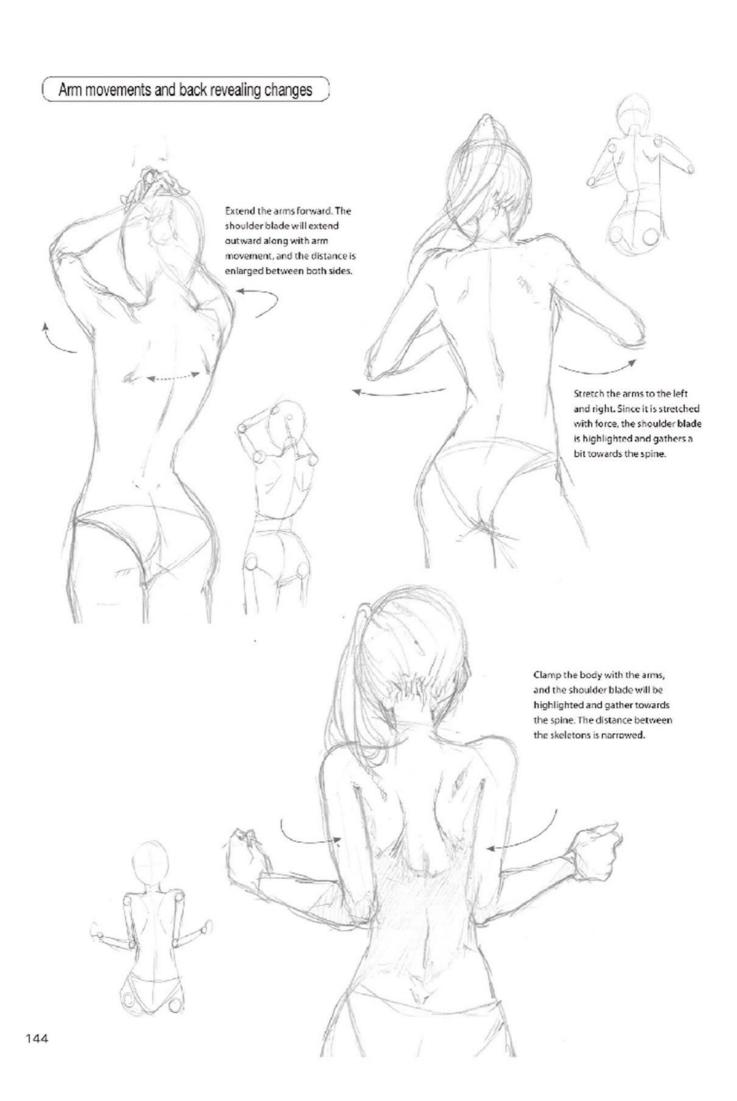
The lines need to turn. Draw up details and complete the

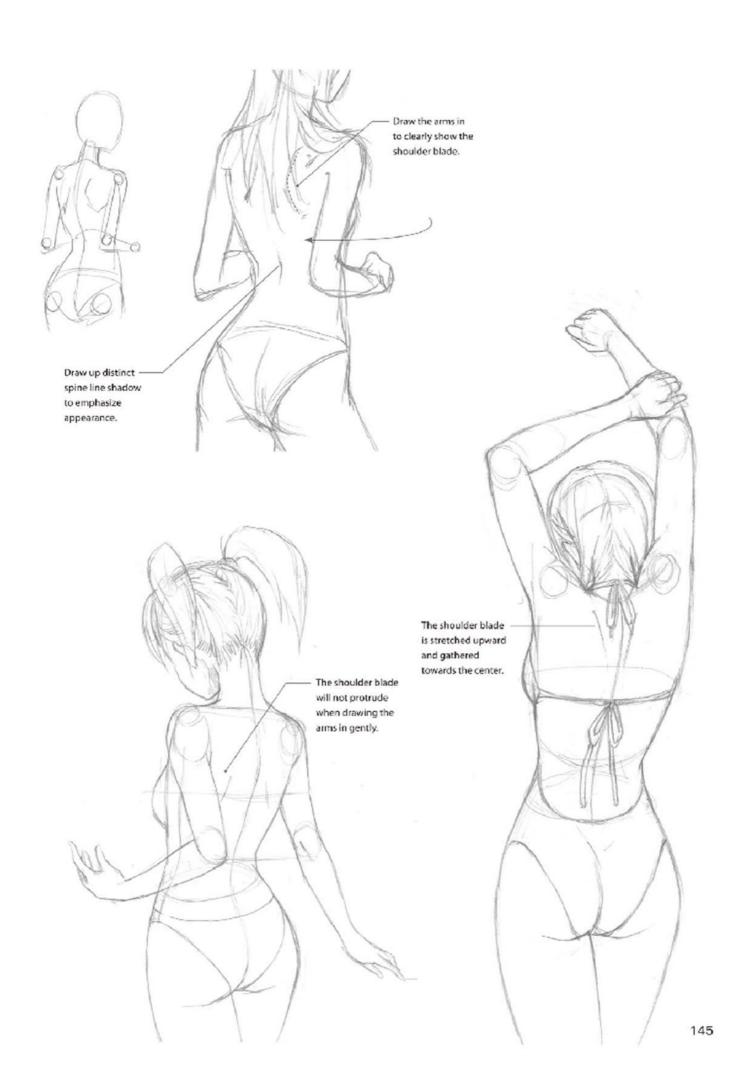
Revealing of the back









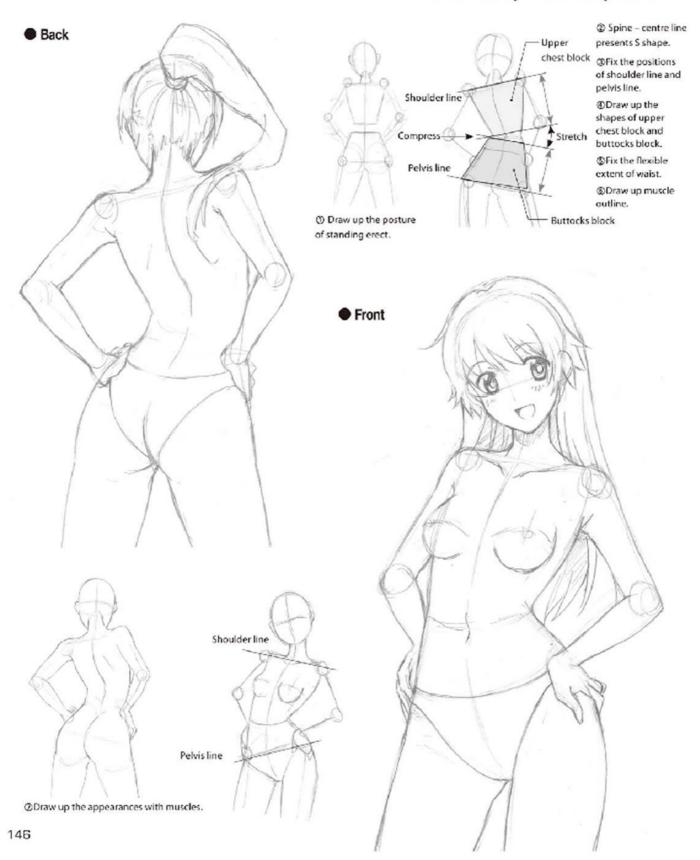


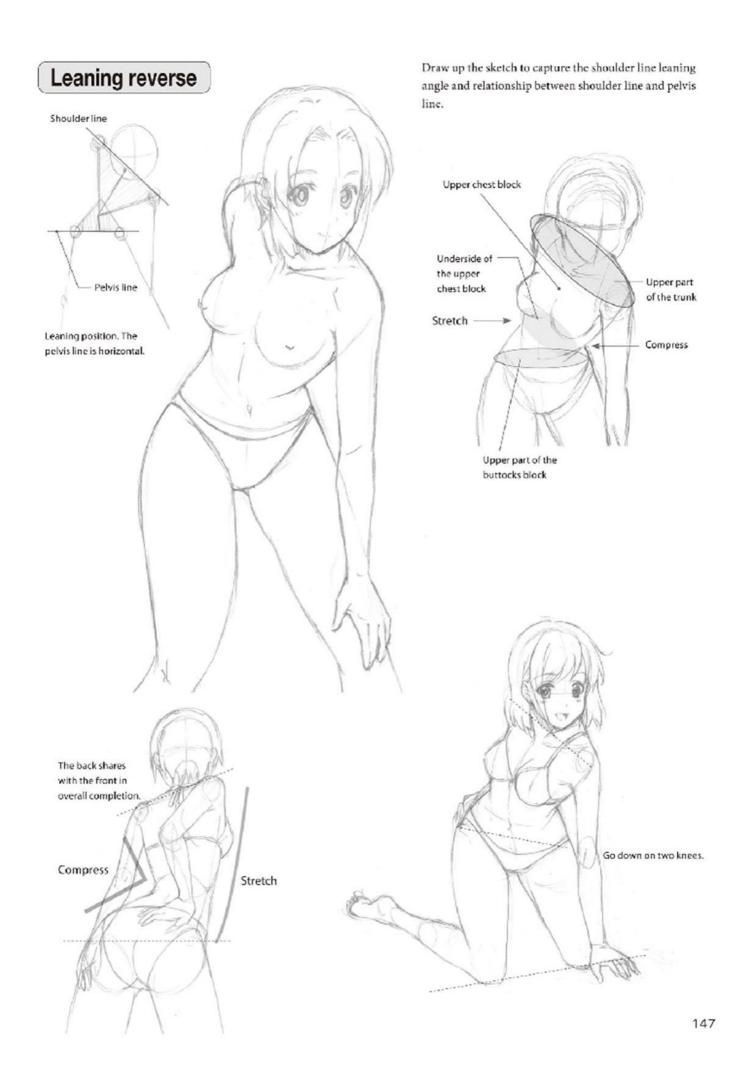
Draw the twisting, turn-back and bending movements

The key to display a flexible waist lies in the '<' shape.

Reverse the S shape when standing

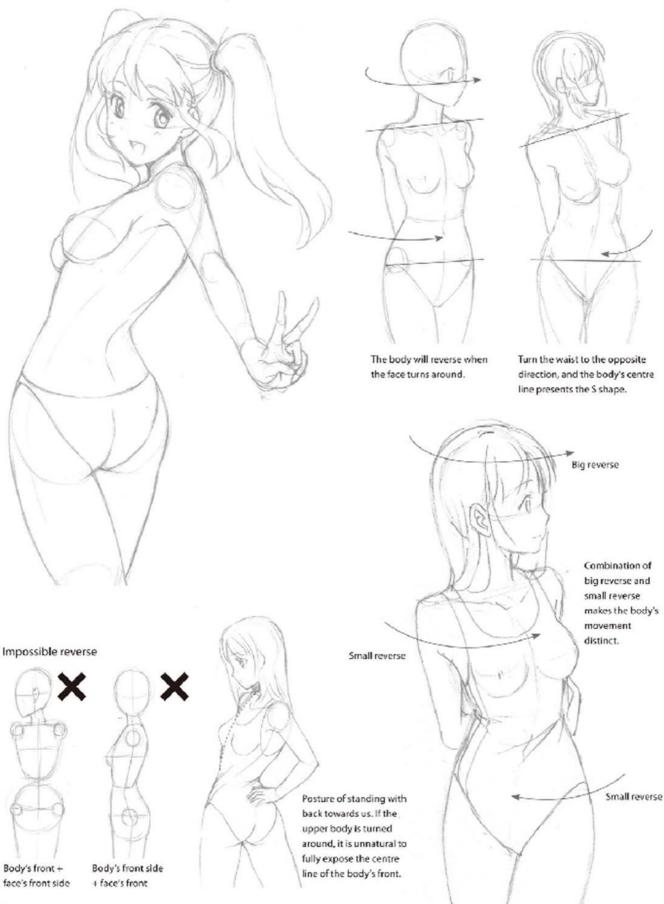
Draw up the spine line to fix the posture. The shoulder line and pelvis line are not paralleled.



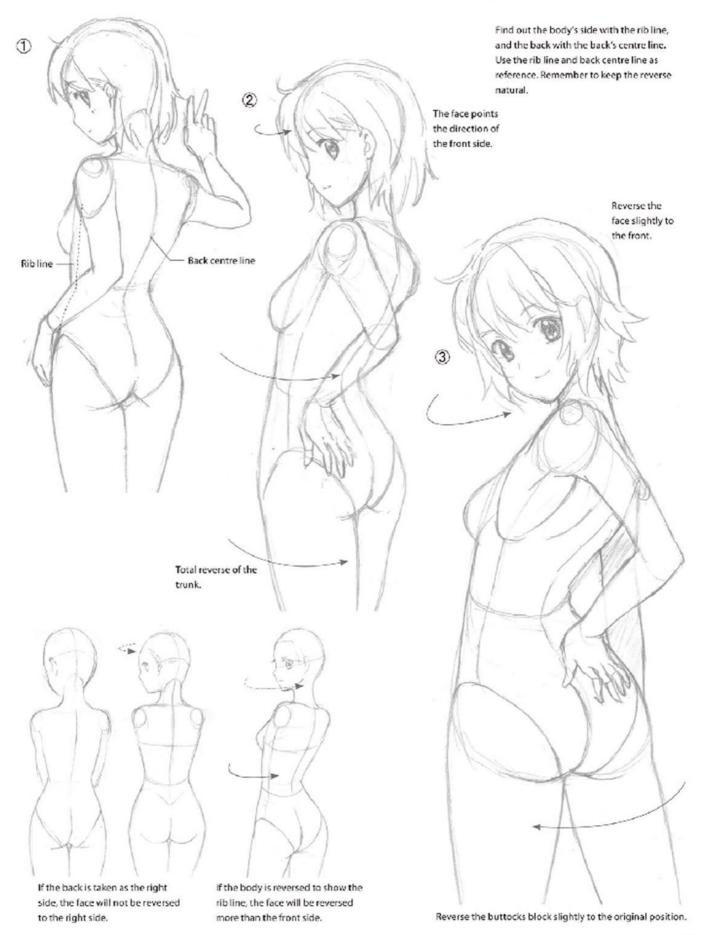


Turning around

Change the directions of the upper chest and buttocks block. Remember the back's centre line cannot appear at the same time with the body's front centre line.

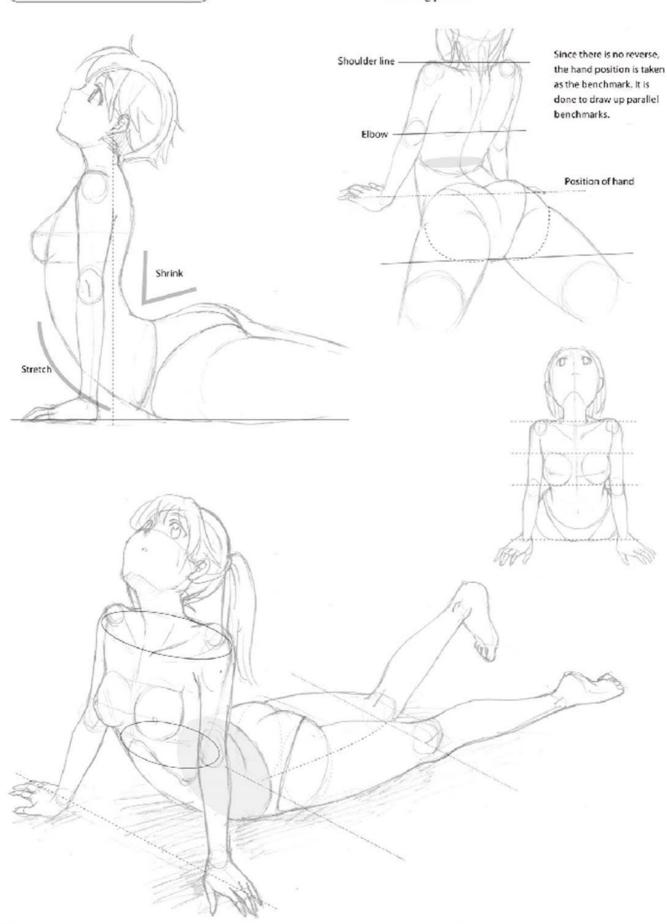


A slight reverse of the face, trunk and buttocks block cultivates a more dynamic glancing back



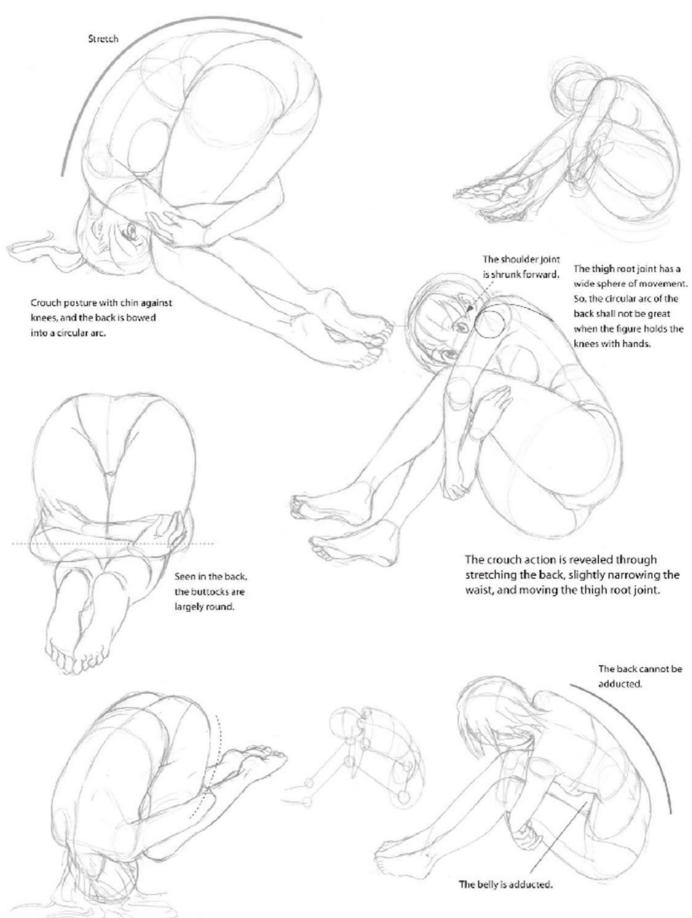
Reversed bending

Look at the stretching of the abdomen and back waist shrinking posture.



Crouch Position

The back is expressed with round curves.

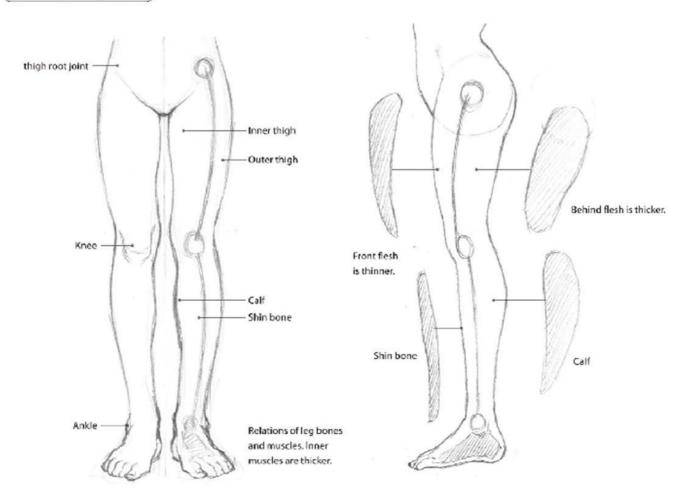


Draw up beautiful legs

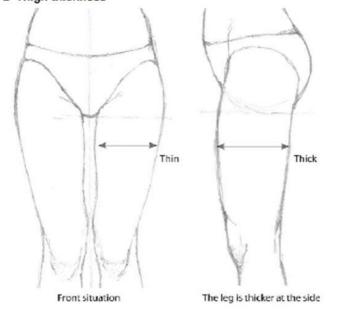
Legs of the same figure. If the figure is observed in different angles or takes different actions, the thigh thickness will change. The contour line will also change.

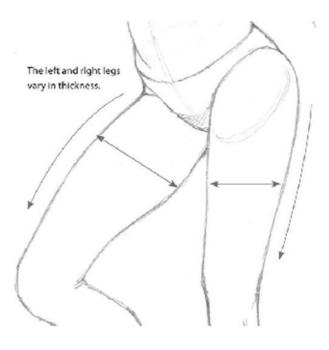
Fix the leg line

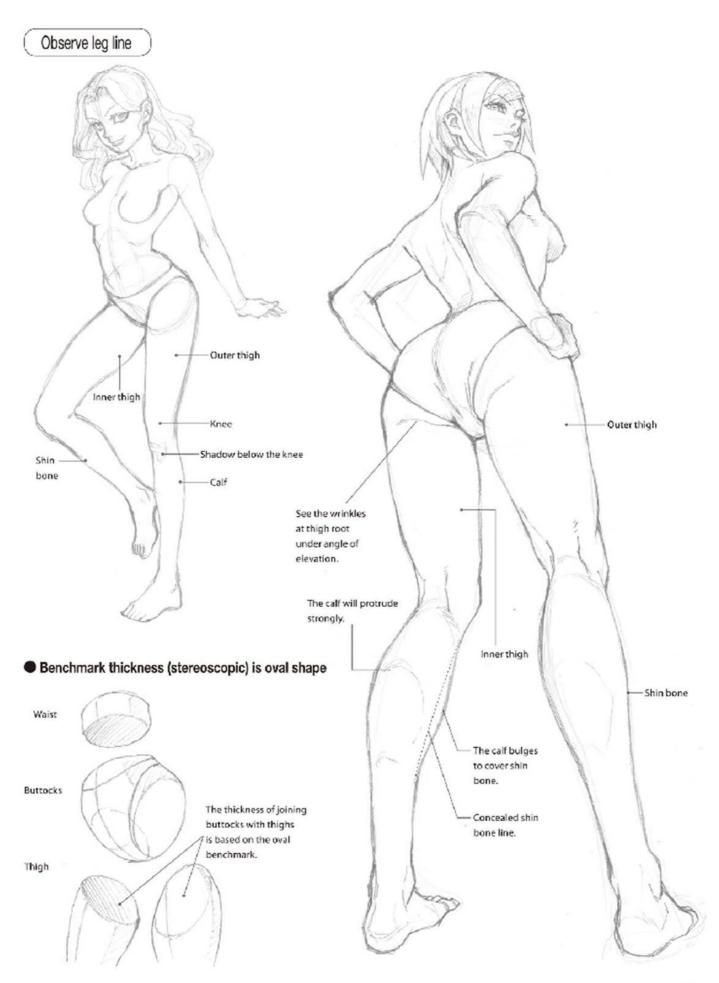
Understand the leg part names and muscle situations.



Thigh thickness

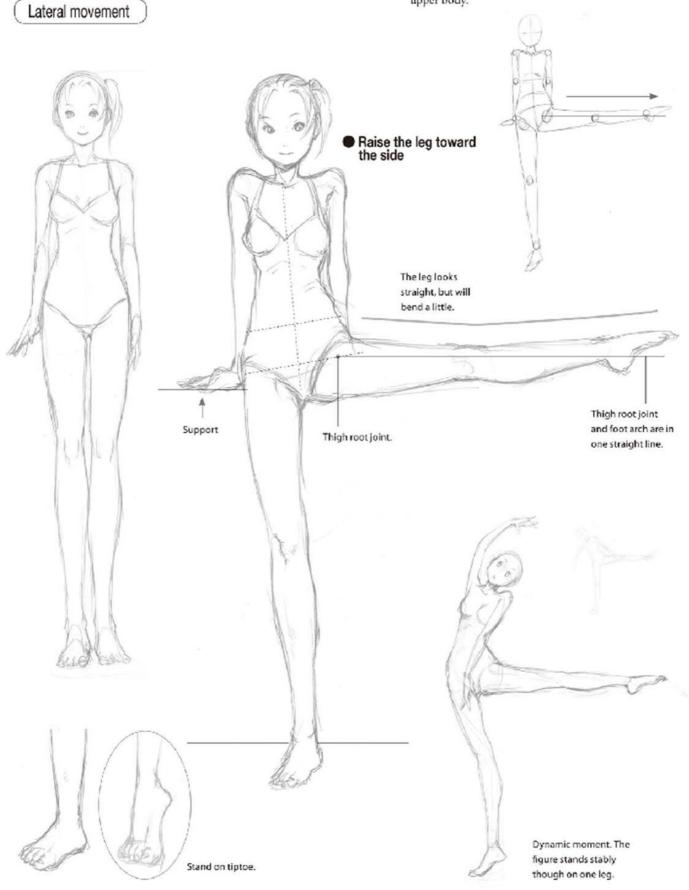


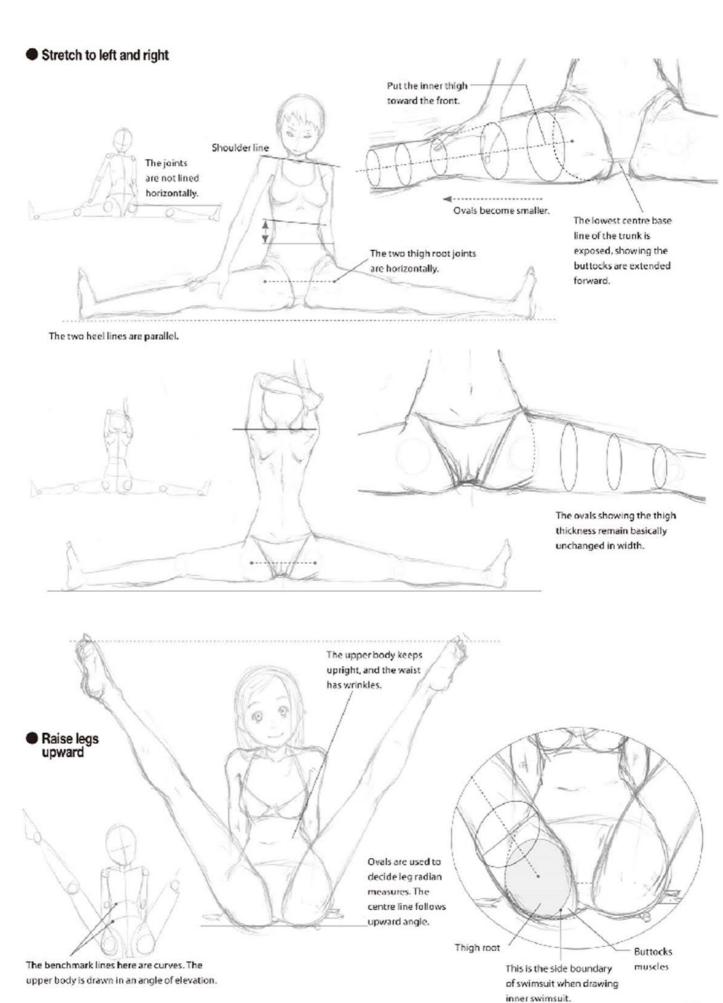


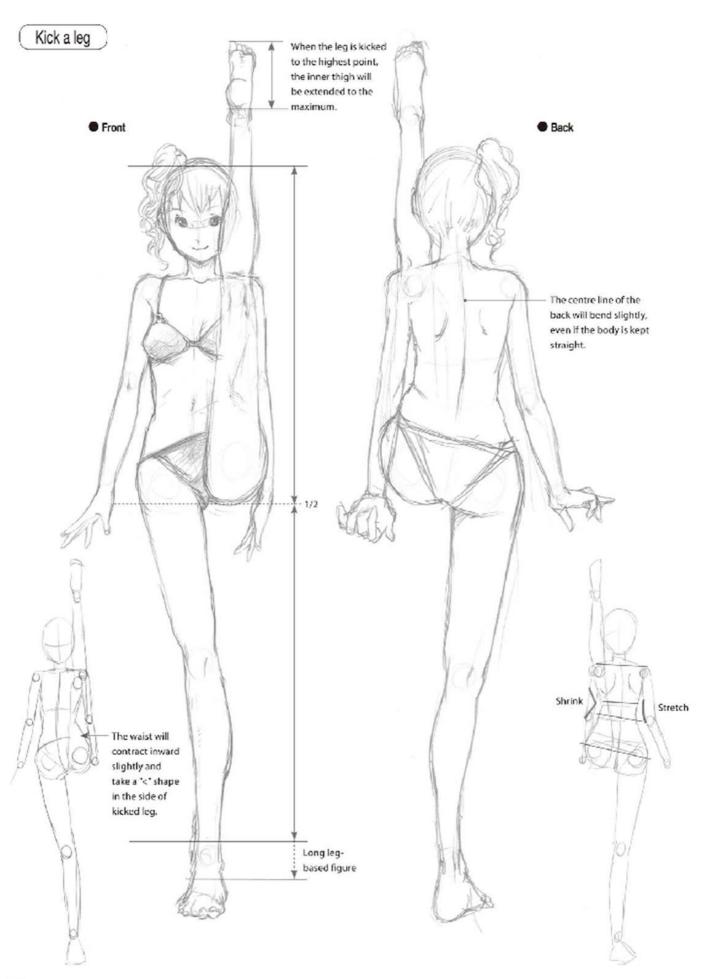


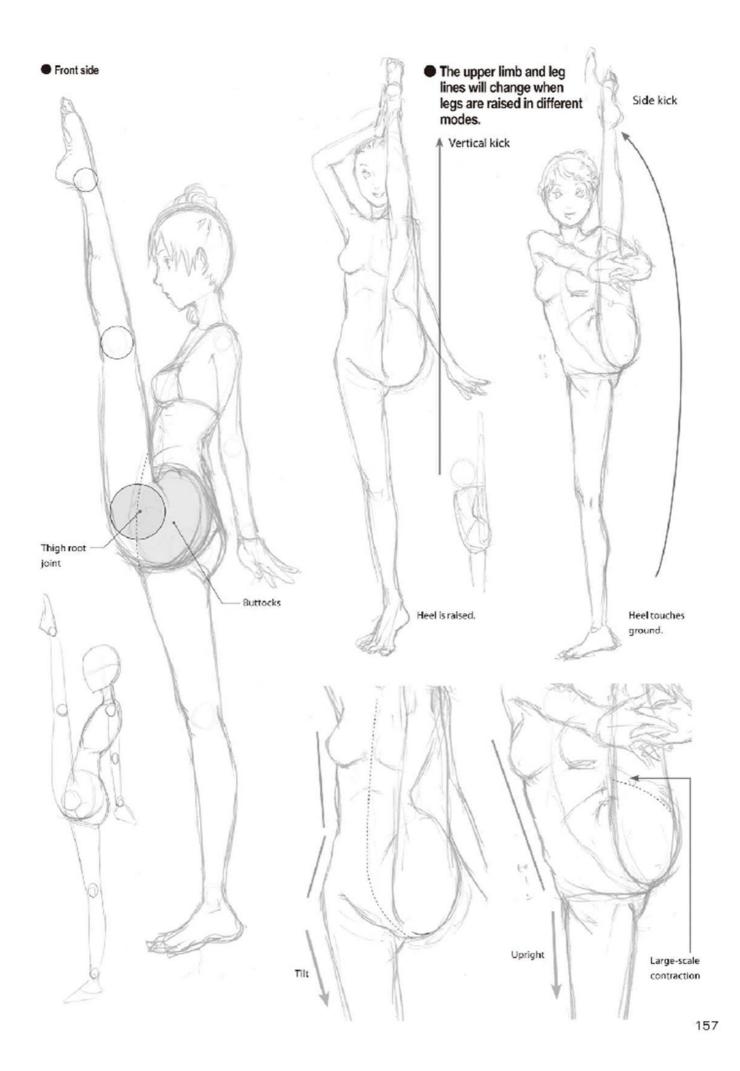
Draw up leg movement

The leg joint may remain still when thigh root joint moves. The thrust comes forth from the thigh root, triggering simultaneous movement in the waist and upper body.



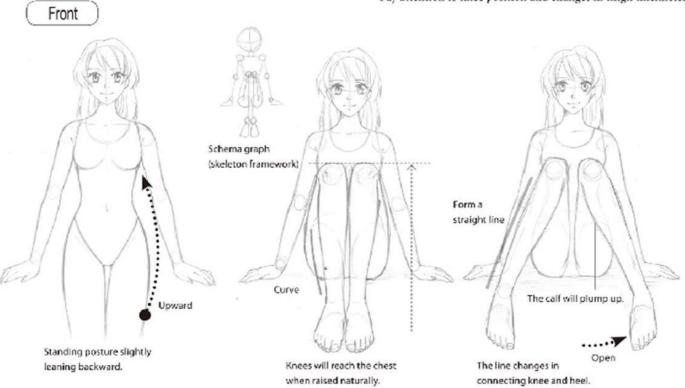


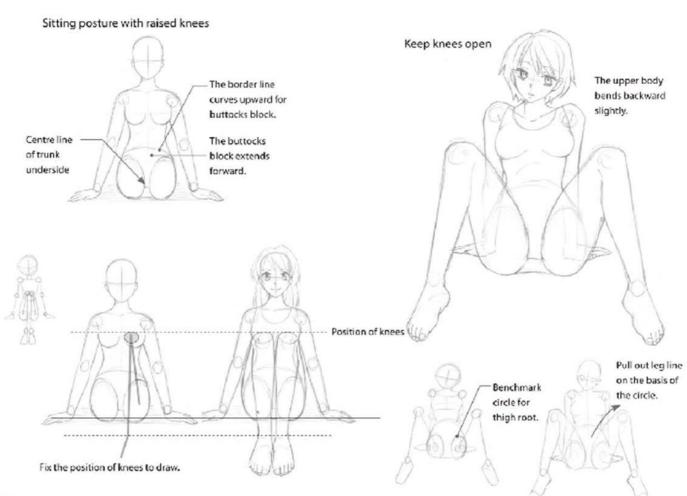


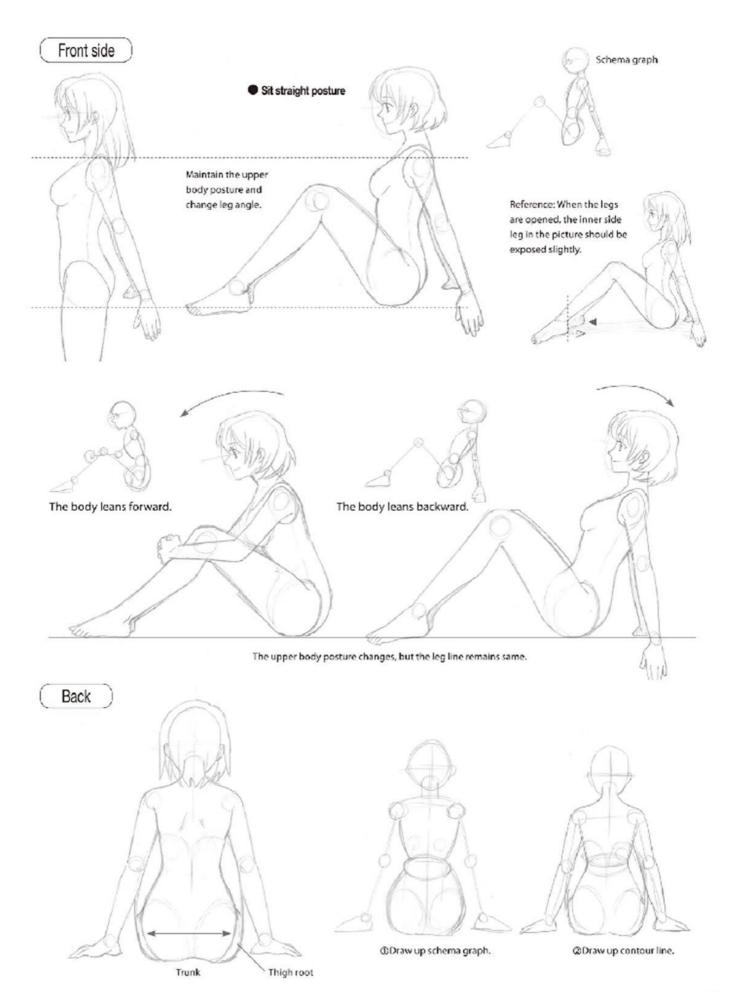


Leg forms when seated

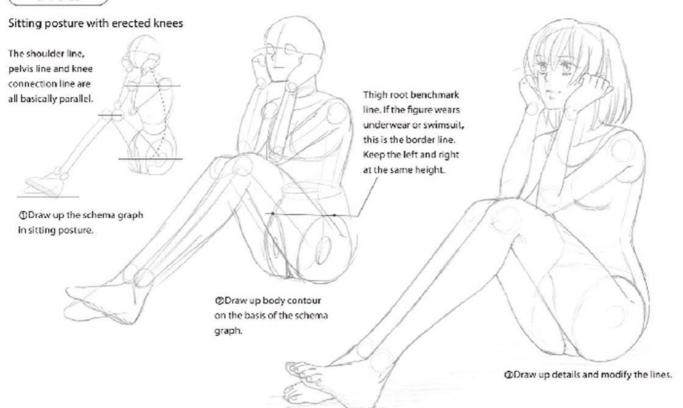
Now, let's look at how to draw legs when the figure sits down. We may draw up the schema graph first to determine posture. Pay attention to knee position and changes in thigh thickness.



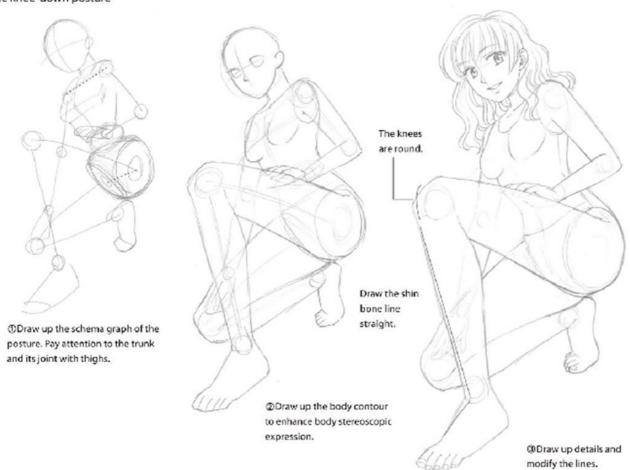


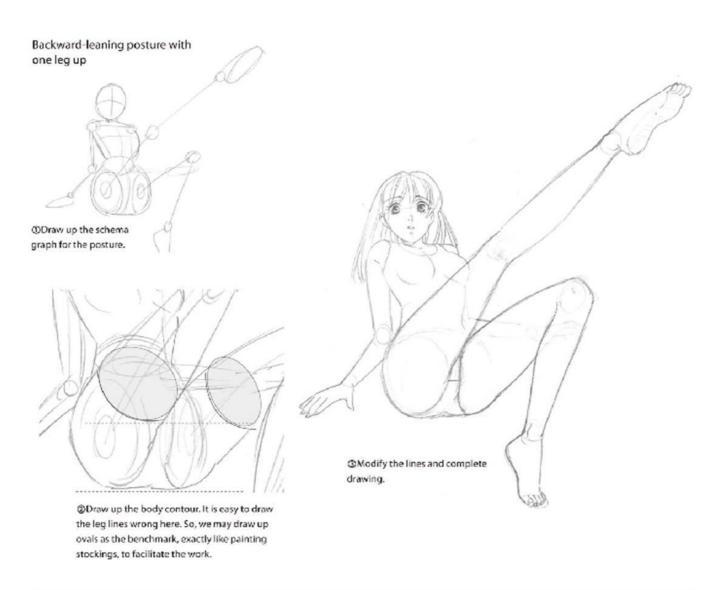


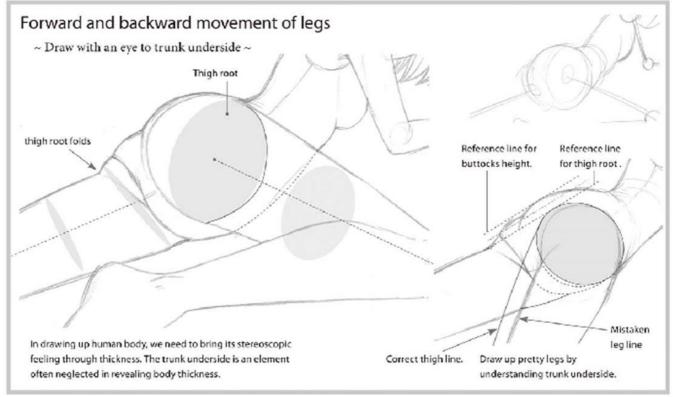
3/4 side



One knee-down posture

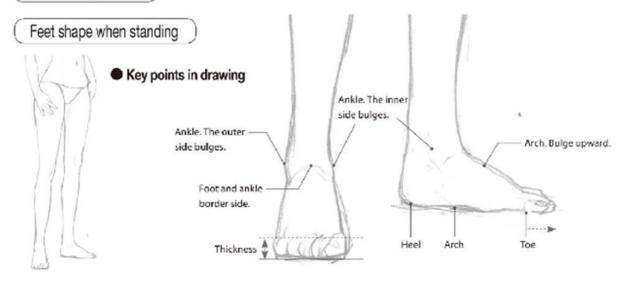


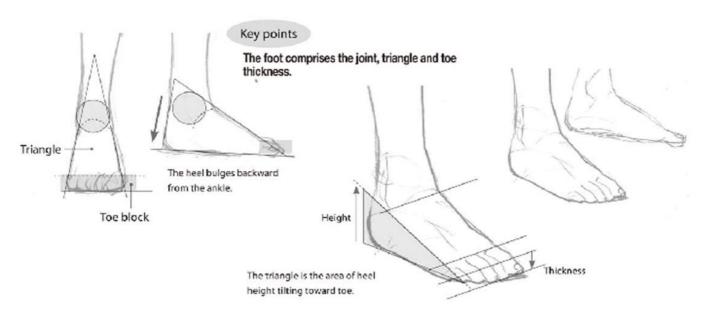


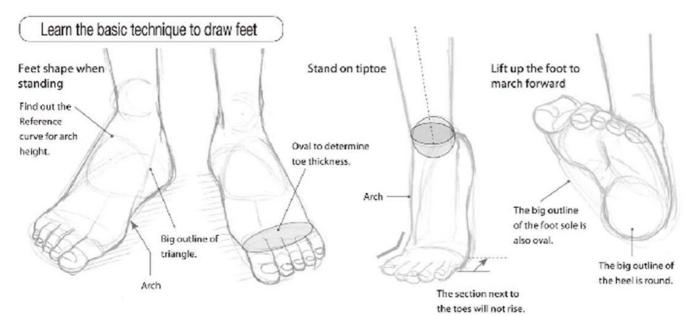


Draw up feet

Capture the triangle and toe block.

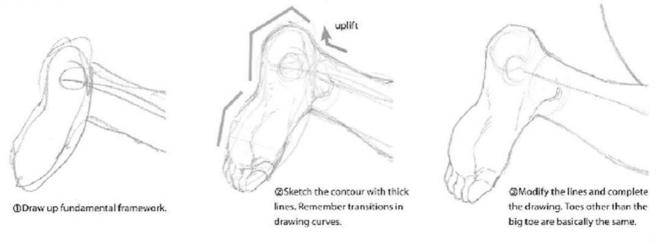












Four body types

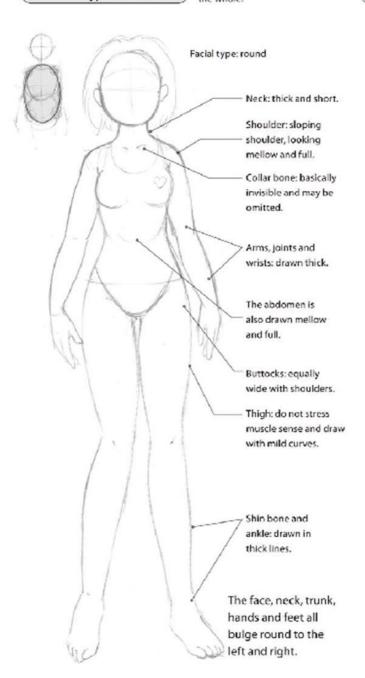
The figures' bodies may be separated into four types according to the skeleton and muscle expression modes. Different body type brings different personality inclinations and behavior modes of the figures. All the cartoon figures are essentially expressed on the basis of the four body types.

Circular type: abdomen

It looks mellow and full on the whole.

Slim type: head

The figure looks slim and tall. The neck is strong, though it looks slender.



Face type: Slim and long. Neck: thin but strong. Shoulder: properly stress the beauty of the bone, so draw it with some curves. Collar bone: distinct. Arms and wrist: stress slender muscles. Buttocks: as wide as shoulder. Thigh and calf: draw it slender. The face, neck, trunk, hands and feet are slender.

This type of figure is perceptual a gourmet and fond of talking.

- · The figure looks chubby, a sunshine girl.
- · The figure is a girl of feeling, who loves gourmet and chat best.
- · If she feels hungry, she will be low in spirits.
- Acts according to her own preferences. Does not think too much about anything. Always an easy going person.
- · Has a good memory, sensitive, and follows her heart.
- The image color is a bright color, such as red and pink (because it looks pretty).

This figure belongs to the thoughtful type They are wise but slightly weak in actions

- · Slender looking
- · Looks dull because of pondering
- Logical in thinking, planning, imaginative. But they often end up with nothing definite after the thinking.
- · A combination of adviser (realism) and dreamer (idealism)
- · No image color (just like it)

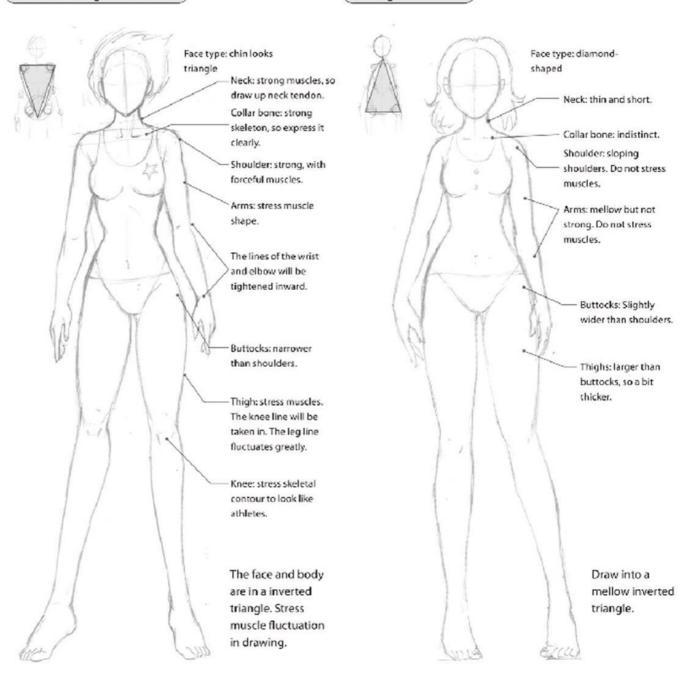
According to the body addiction theory of Haruchika Noguchi, founder of Haruchika Noguchi Integrity, we classify cartoon figure design and expression on the basis of visual senses, to make them easy to understand and apply.

Inverted triangle: shoulders

Feeling like an athlete.

Triangle: buttocks

Buttocks are wider than shoulders.



This figure is the athletic type Thinks rationally

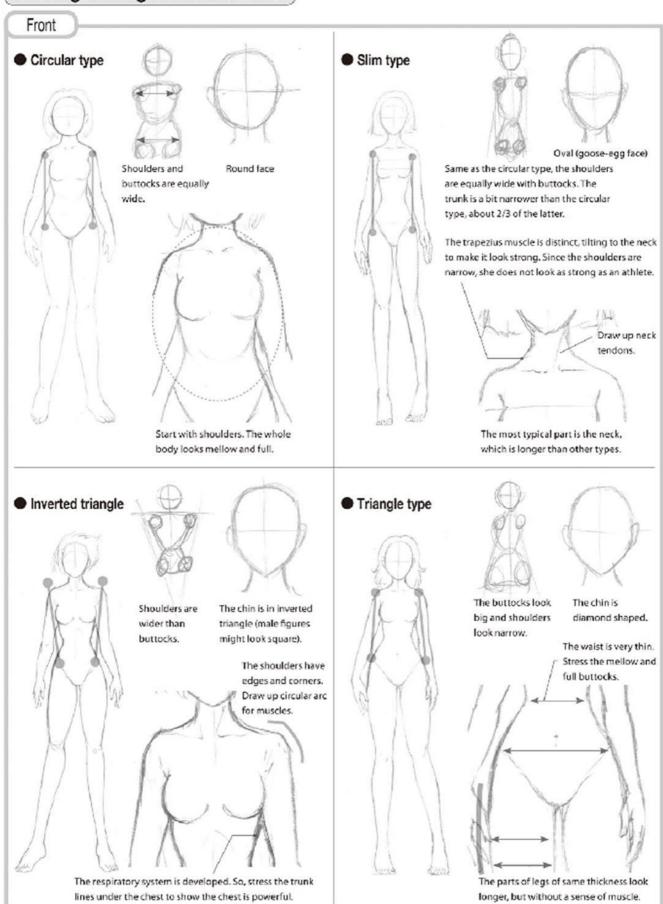
- Inverted triangle with wide shoulders and narrow buttocks.
- · Developed respiratory system and strong athletic ability.
- Analyze reasons, and gains and losses of actions theoretically.

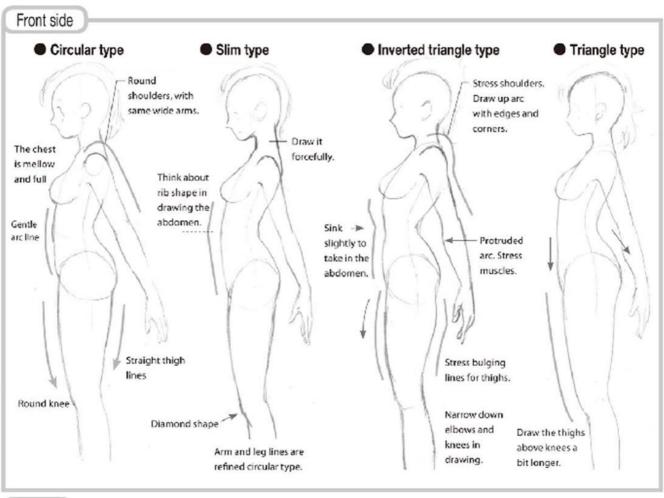
 Take actions when the objective is clear.
- Sentimental sometimes, but can be cool and unfeeling towards others.
- No image color (choose the color according to objectives).

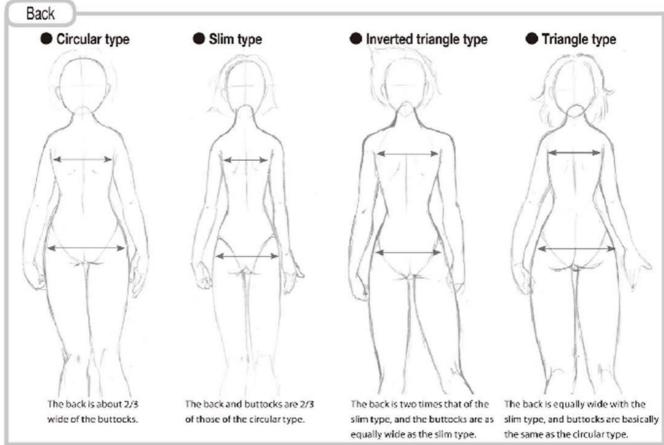
This figure is passionate She is prudent and sensitive

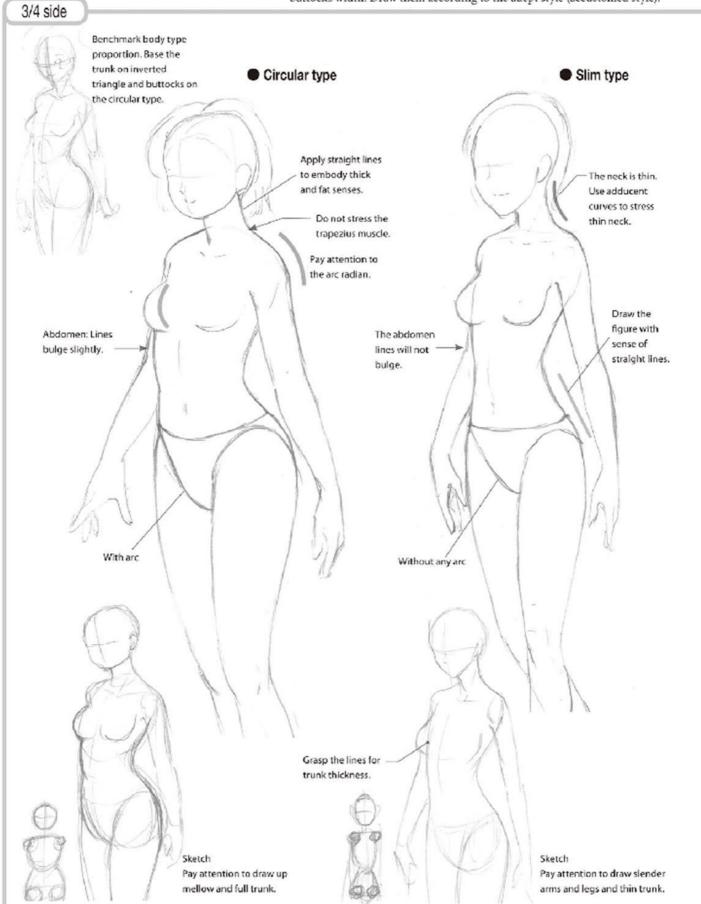
- Wide buttocks, inverted triangular body, and long legs.
- Steady and prudent. Acts fast when emotionally ready or decision made. Concentrated.
- Keen intuition. Grasps essence of things without thinking.
- Artists and creators fall into this type. They are slender and yet with destructive explosive forces.
- · Good at caring for others, with a maternal instinct.
- · The image color is grey or black (act with intuition).

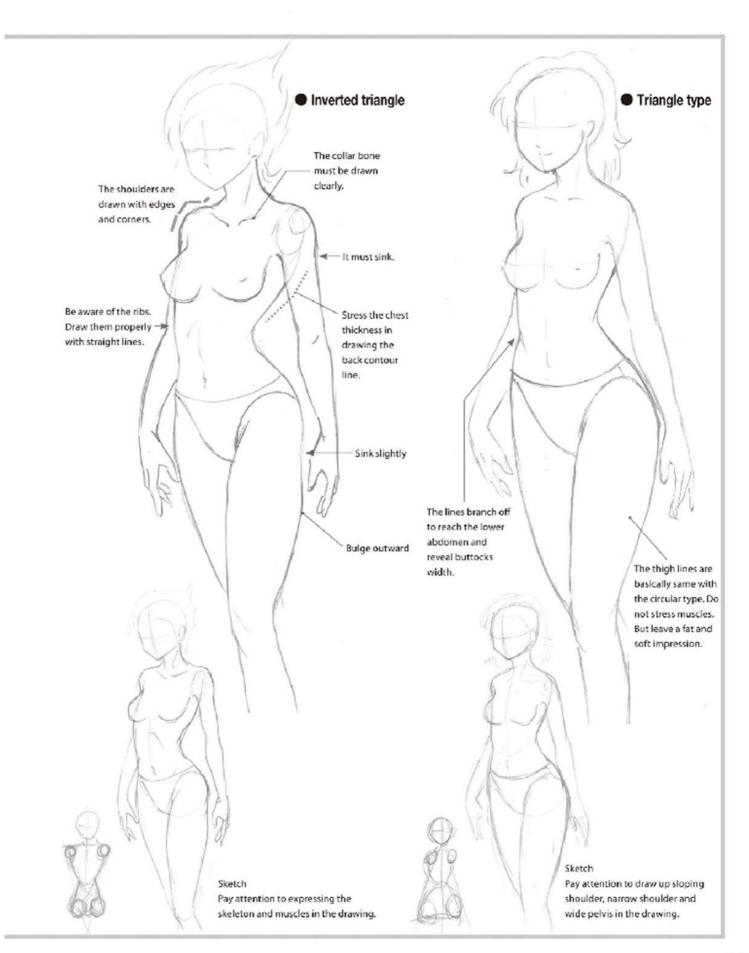
Distinguishing basic features

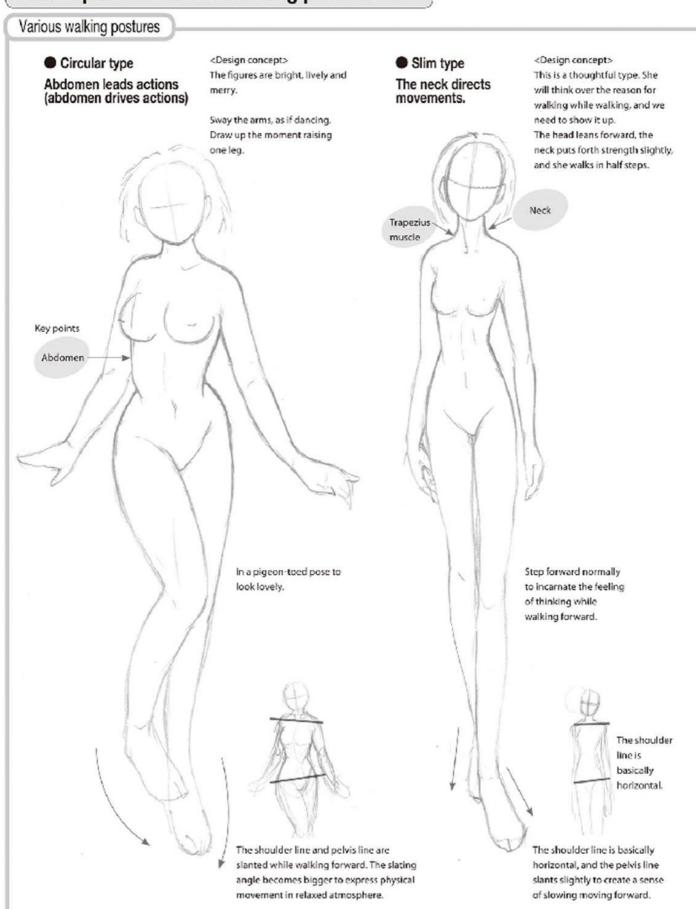


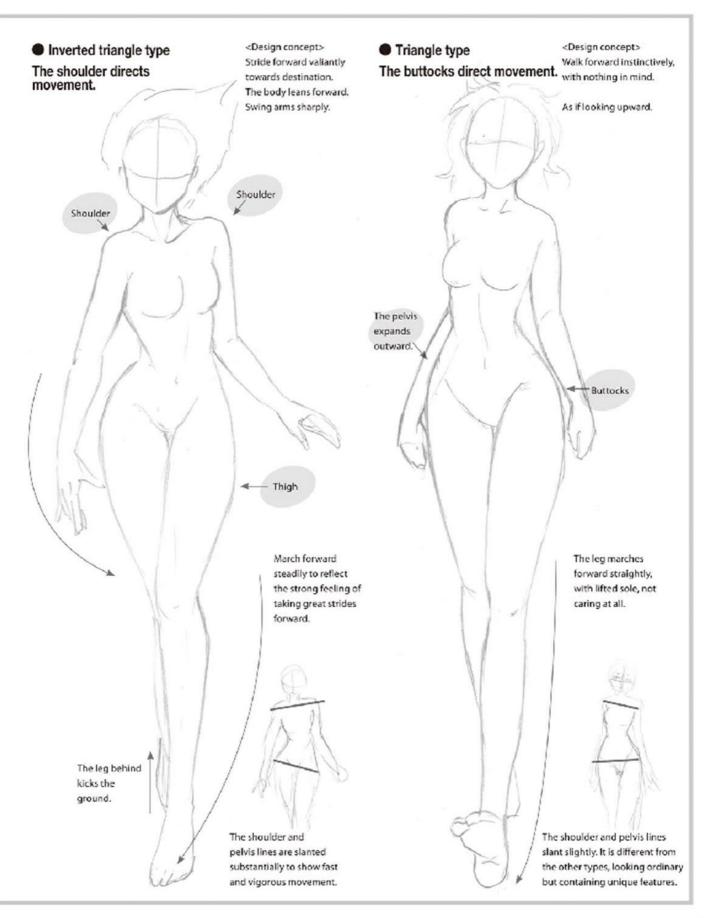


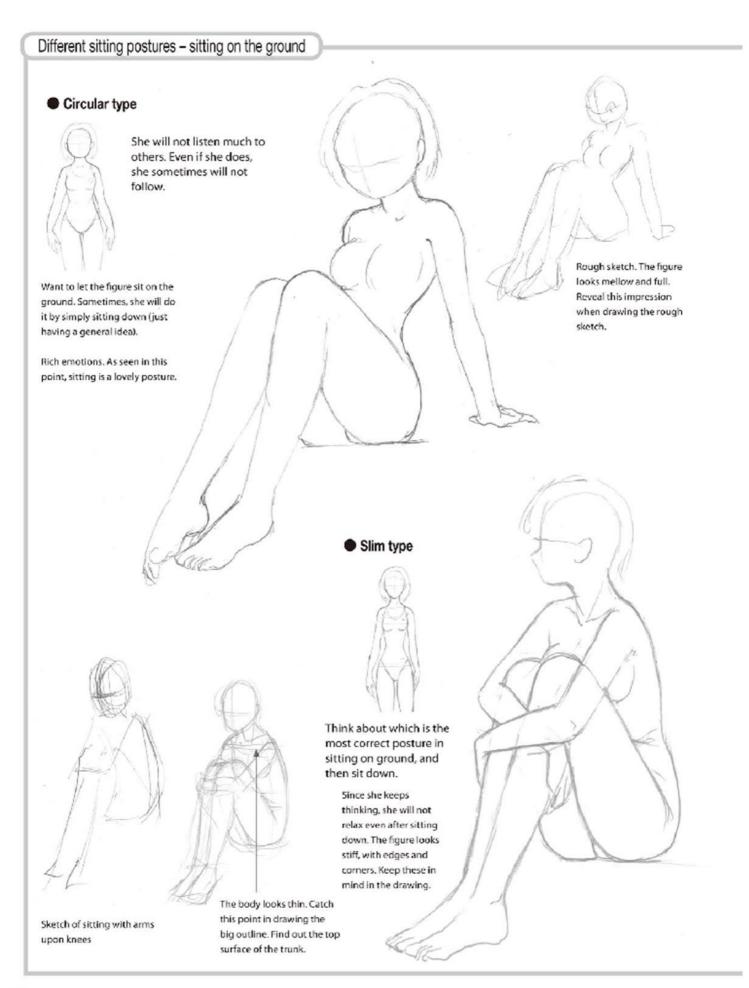


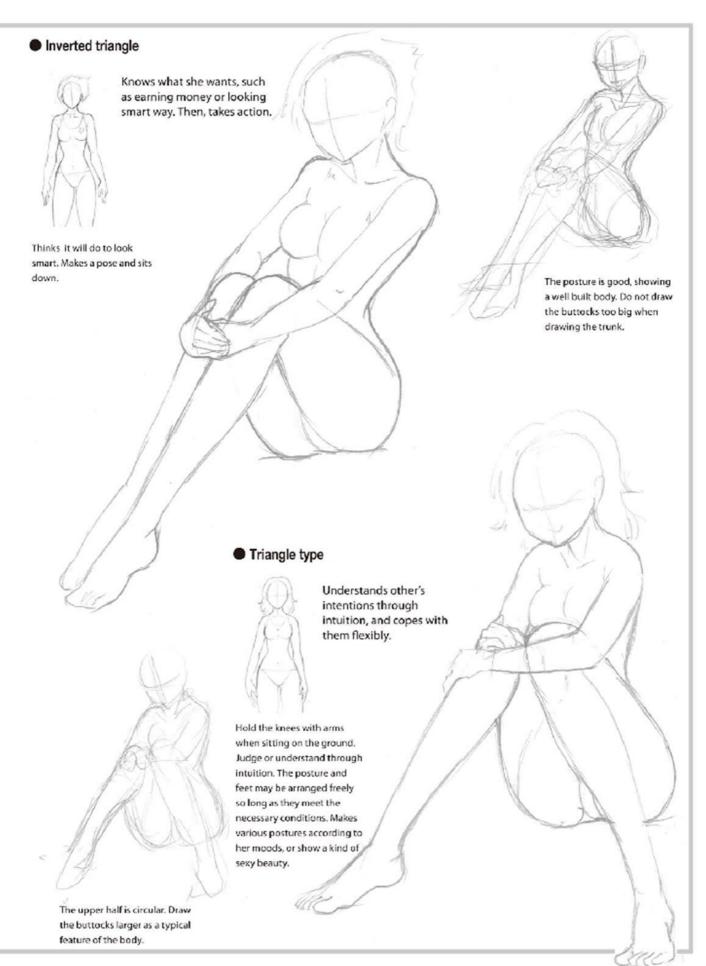




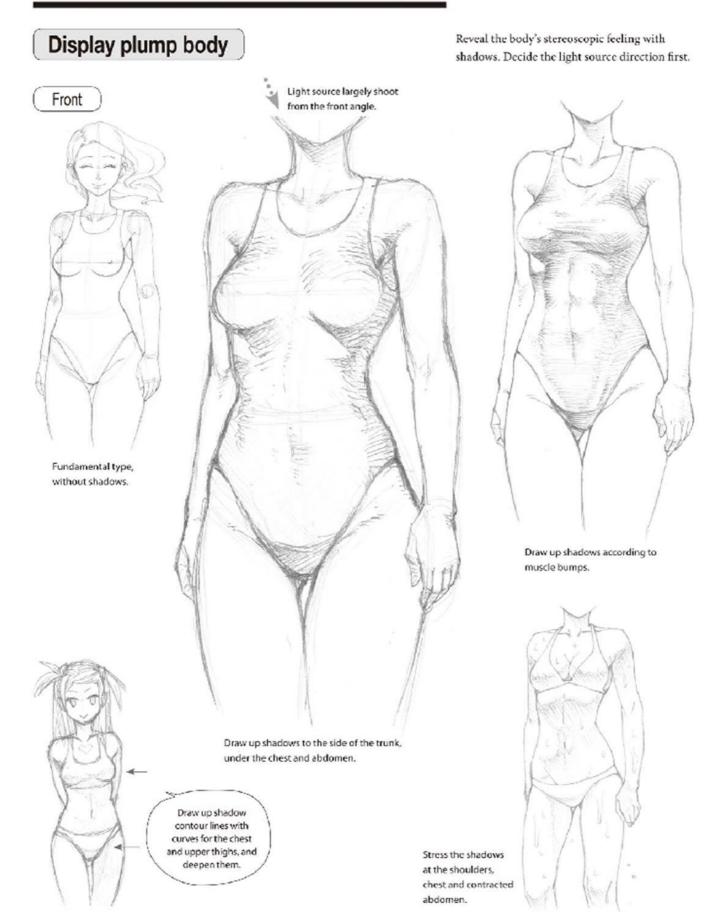


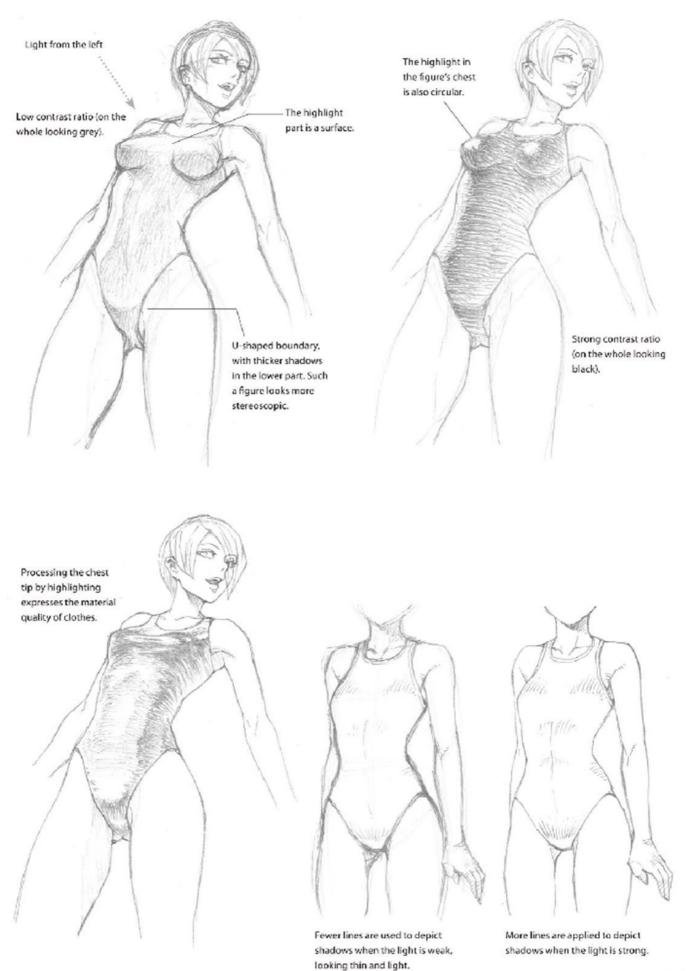


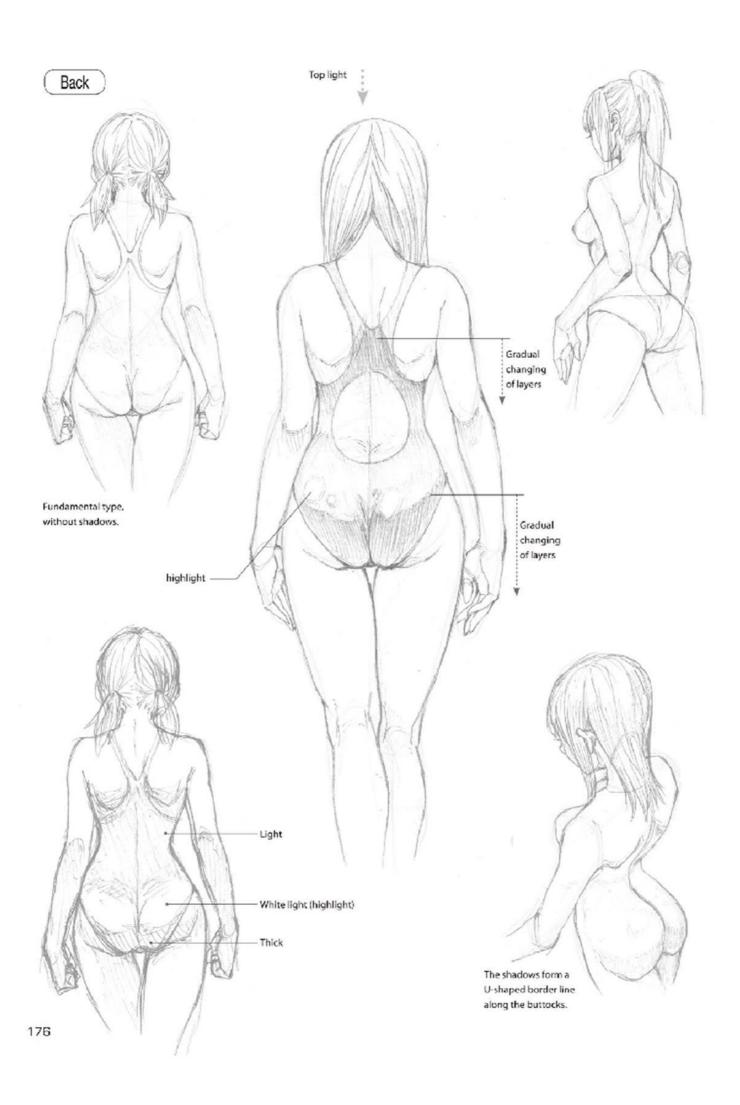




Draw up existing and dynamic figure







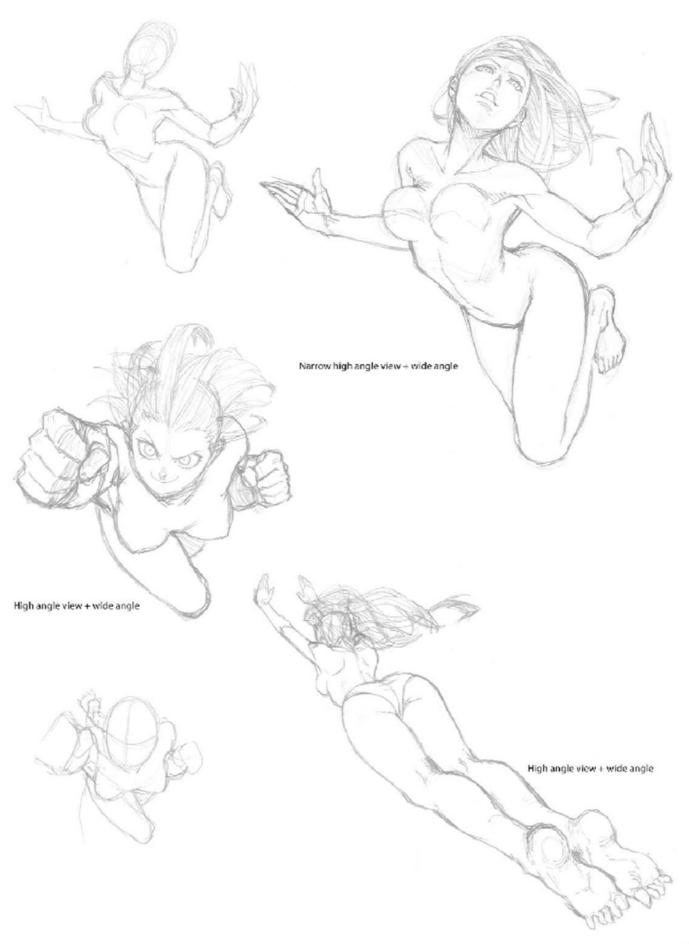


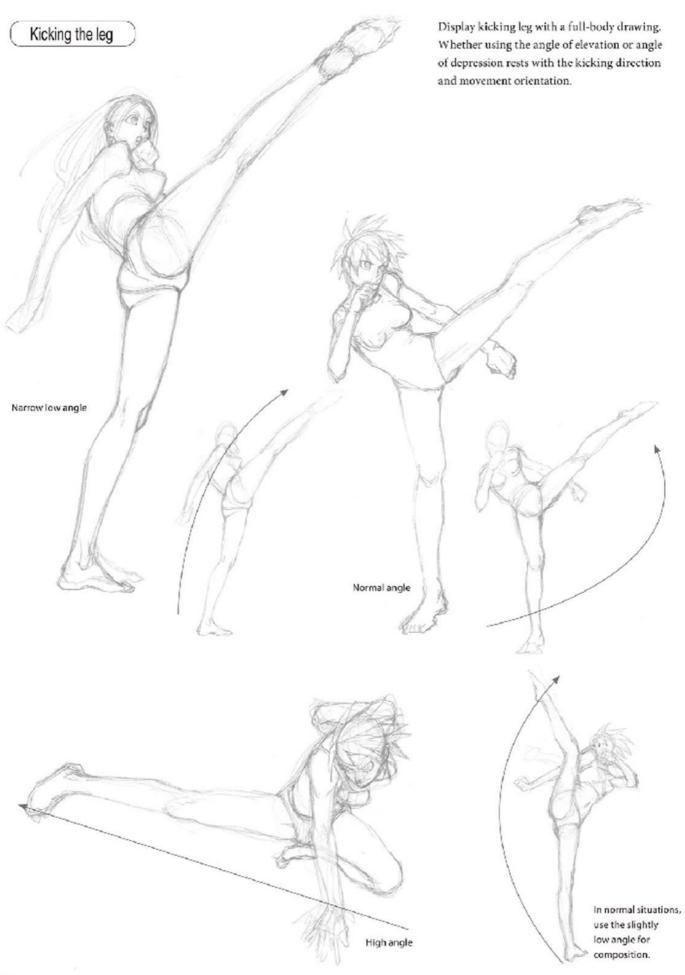
Body performance in a large movement

Springing posture

Remember we may display the figure in various angles in the drawing. The angle of elevation and the wide angle will make the figure bold and vigorous.









Key points for professionals in designing figures

To summarize the book, we requested Kazuaki Morita to write a chapter on "key points for professionals in designing figures".

Kazuaki Morita, busy at work, asked "Is it all right to draw the face only?" Seeing I made no response, he politely added "You'd better give me a theme."

"What about drawing the image of a woman warrior?" I asked.
"Let me try. But this way, that would be too simple to draw the face only," said Kazuaki Morita.

I realized by then this was only a conceptualized theme, without concrete requirements. Professionals will think they only need to draw a replied face.



Kazuaki Morita said 'Sketch 1 was directly drawn according to the designs."

We will find out here that the elements of the original design were "uniform + armour" (overall and outline designs), and the "sense of top student" (role of the figure).

The fundamental concept of such a figure was formed by accident. This is the basis of figure design.

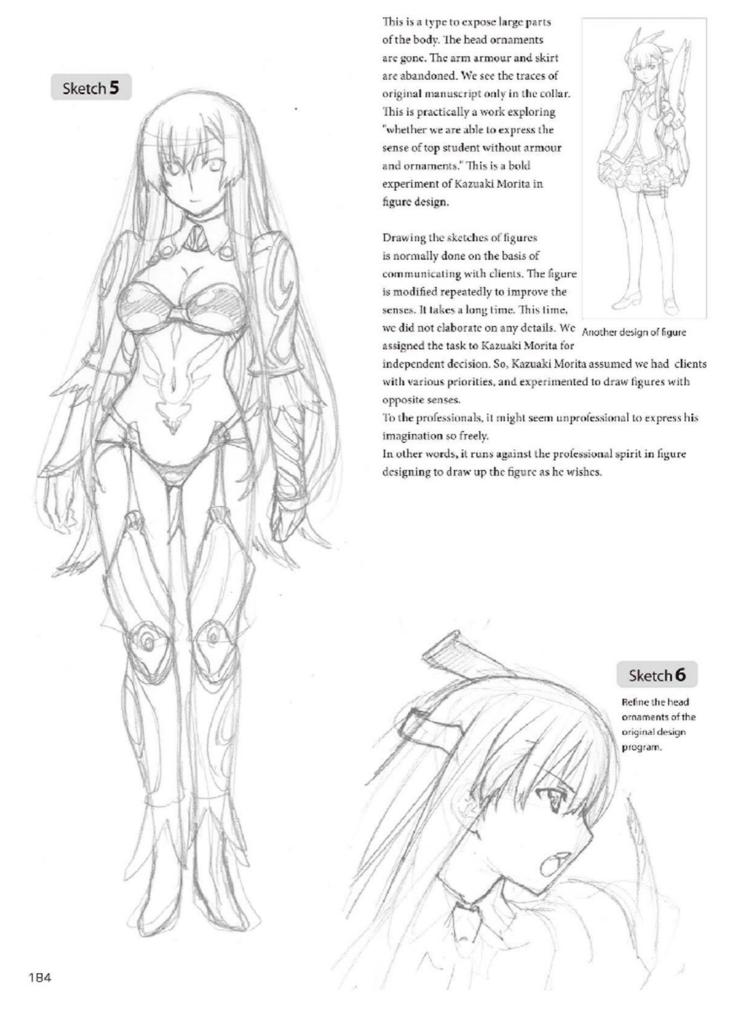
Soon afterwards, there came three pictures to determine the sense of the upper body.

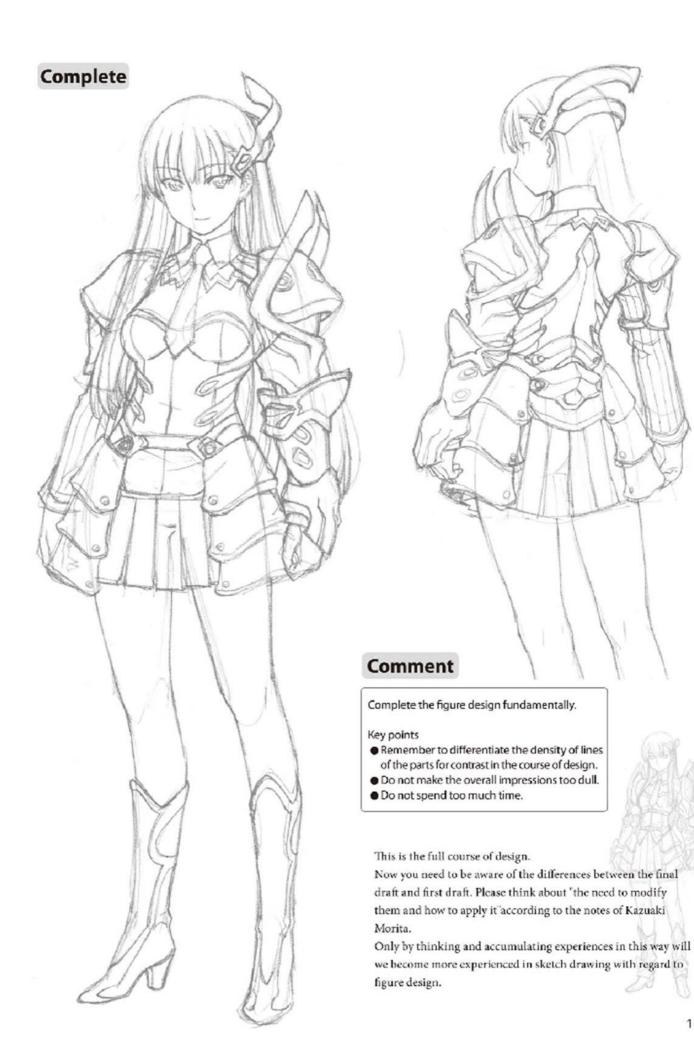


Here, the head ornaments, left arm armour, chest part, shirtfront, and girdle are all adjusted according to the angle of looking up. The figure design becomes more explicit. The designer keeps asking himself what the figure lacks in image.



This is not drawn randomly. On the basis of the figure in sketch 1, Kazuaki Morita presented two options. One is sketch 4, which is an experiment to show the figure in a opposite image to the original picture, relating to the body, skirt, left arm armour, head ornaments, and legs, except for the facial features.





Master drawing after processing



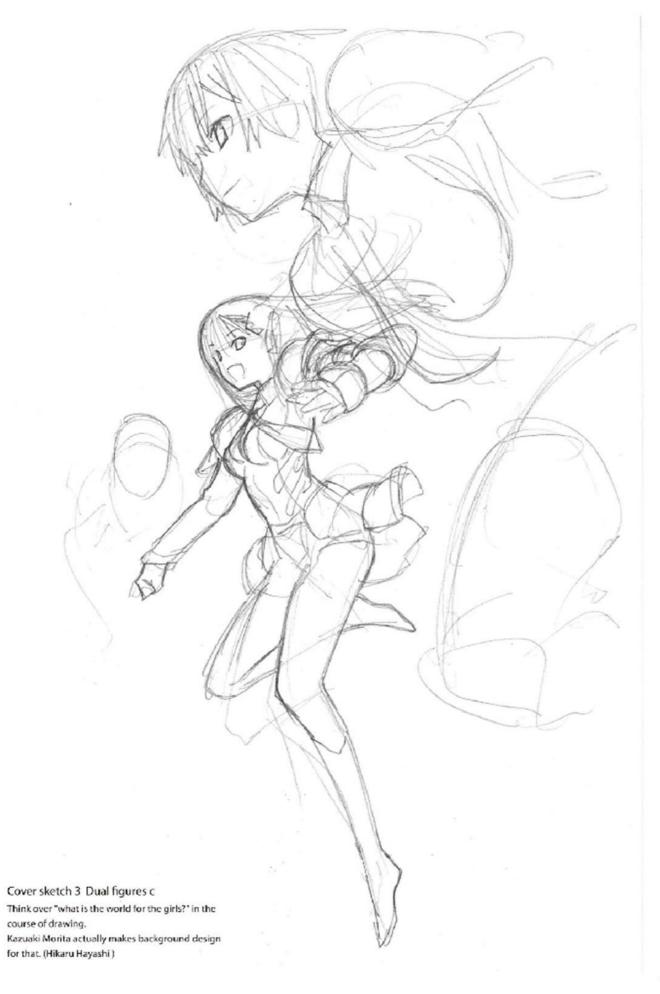


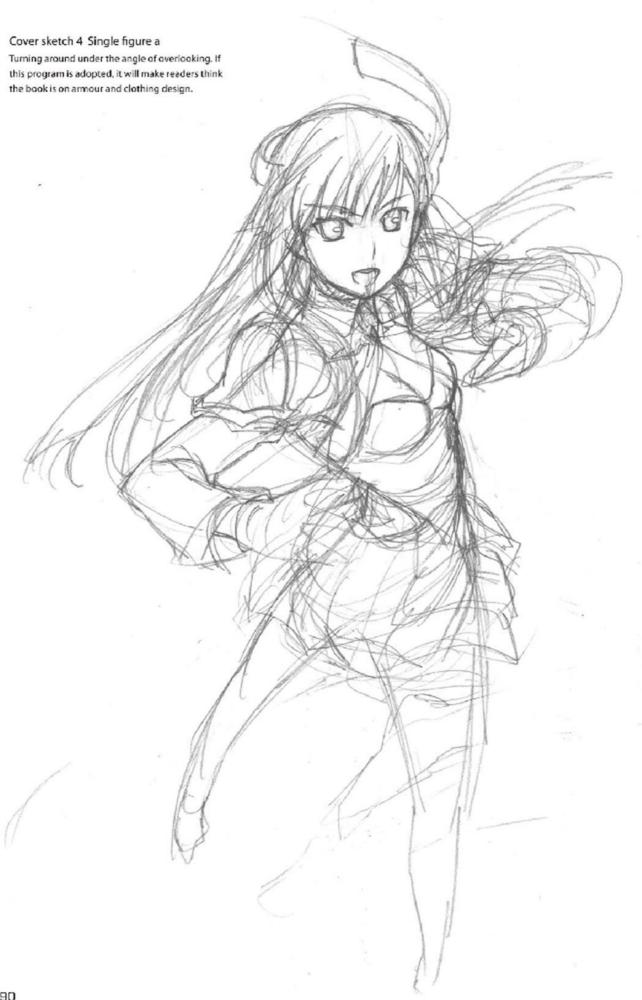


Drawing and grey processing: Kazuaki Morita Narrator: Hikaru Hayashi









Cover sketch 5 Single figure b On occasions, we will think of drawing a figure like this. It will feel dull if we do not draw something unique... 191



About Kazuaki Morita

Kazuaki Morita was born in Shizuoka Prefecture, Japan. He learnt from Master Shiro Ohno as a cartoon assistant in 1996. Since 1998, he joined Go Office to produce cartoon technique books, responsible for cover picture drawing. Since 2000, he began to design figures for computer games and make original creations. He entered Logistics Company in 2002, working at Team Till Dawn. He participated in figure design, original creation, drawing supervision and illustration drawing for the PS2 game Tear Ring Saga 2 -- Berwick Saga, and animation work Seto no Hanayome.



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